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COMDTNOTE 1414

May 28 2003 CANCELLED: NOV 28 2003

COMMANDANT NOTICE 1414

Subj: CH-5 TO THE ENLISTED PERFORMANCE QUALIFICATIONS MANUAL, COMDTINST M1414.8C

- 1. <u>PURPOSE</u>. This Notice publishes changes to the Enlisted Performance Qualifications Manual, COMDTINST M1414.8C.
- 2. <u>ACTION</u>. Area and district commanders, commanders of maintenance and logistics commands, commanding officers of headquarters units, assistant commandants for directorates, Chief Counsel, and special staff offices at Headquarters shall ensure compliance with the provisions of this Notice. Internet release is authorized.
- 3. <u>DIRECTIVES AFFECTED</u>. None.
- 4. <u>SUMMARY OF CHANGES</u>. This Notice updates the Enlisted Performance Qualifications for the AMT, AST, AVT and EM ratings. For the AST rating only the common aviation qualifications were changed and therefore only those qualifications require re-certification by previously qualified personnel. As for the EM rating the qualifications remain unchanged with only additional references and links being provided for the existing qualifications.

DISTRIBUTION - SDL No. 140 d е f h Z С m n р q w у B 15 30 30 10 С 2 D Ε F G Н

NON-STANDARD DISTRIBUTION:

COMDTNOTE 1414

5. PROCEDURES.

a. Remove and insert the following pages:

Remove	<u>Insert</u>
Tab 3, pages 1 thru 14	Tab 3, pages 1 thru 17
Tab 4, pages 1 thru 11	Tab 4, pages 1 thru 20
Tab 5, pages 1 thru 13	Tab 5, pages 1 thru 16
Tab 8, pages 1 thru 30	Tab 8, pages 1 thru 31

6. <u>FORMS AVAILABILITY</u>. Current up to date copies of CG Form 3303Cs for each rating are available on the World Wide Web at the following address: http://www.uscg.mil/HQ/G-W/G-WT/G-WTT/G-WTT-2/TRAPOL/QUALS.HTM. Copies of the Enlisted Performance Qualifications Manual, COMDTINST M1414.8C, with changes, can be located on the Coast Guard Web at: http://cgweb.uscg.mil/g-c/g-ccs/g-cit/g-cim/sirectives/welcome.htm or on the World Wide Web at: http://www.uscg.mil/ccs/cit/cim/directives/welcome.htm.

/s/ R. J. Papp, Jr. Rear Admiral, U.S. Coast Guard Director of Reserve and Training

Encl: (1) CH-5 to the Enlisted Performance Qualifications Manual, COMDTINST M1414.8C

U. S. DEPARTMENT OF HOMELAND SECURITY U.S. COAST GUARD CG-3303C-3 (Rev. 02-03)

RECORD OF PERFORMANCE QUALIFICATIONS AMT

INSTRUCTIONS

Record of Performance Qualifications shall be completed for enlisted personnel of the Coast Guard as outlined in the Enlisted Performance Qualifications Manual, COMDTINST M1414.8 (series). As proficiency in each performance qualification is demonstrated by actually performing the task listed, the DATE and INITIALS column shall be completed. Personnel are required to demonstrate proficiency in all new performance qualifications assigned to their rating. Performance qualifications previously demonstrated, dated and initialed off will not be recertified. Some performance qualifications include intent statements to help clarify the requirements of the task that is to be performed.

RATING		ABBREVIATION
AVIATION MAINTENANCE TECH	INICIAN (Effective for the MAY 2004 Active	AMT
	INICIAN (Effective for the MAT 2004 Active	Alvii
Duty SWE)		
<i>y</i>		
DATE COMPLETED ALL PERFORMANCE QUALI	FICATIONS FOR RATE LEVEL	
E-4	E-5	E-6
E-7	E-8	E-9
NAME (Last, First, Middle Initial)		SOCIAL SECURITY NUMBER
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SIGNATURE OF SUPERVISOR					
DATE	NAME/SIGNATURE	INITIALS	RATE	UNIT	
IARKS					

RATING: AV	IATION MAINTENANCE TECHNICIAN	INIT	DATE
Major Du	ıty: A. Aviation Administration and Management		
Task:			
5.A.01c	Process aviation materiel IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Demonstrate the ability to perform the procurement processes outlined in Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series) by properly requisitioning, handling, and disposing of aircraft parts, tools, and consumables.		
5.A.02c	Submit aircraft publication change requests IAW the Aeronautical Engineering Maintenance Management Manual COMDTINST M13020.1 (series).		
Intent:	Recognize discrepancies in aircraft publications, prepare the appropriate change request, and submit for evaluation.		
5.A.03c	Submit an Unsatisfactory Report (UR) of Aeronautical Equipment (CG4010) IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Document and forward information concerning failures of aeronautical equipment, ground support equipment, and tools.		
6.A.01c	Supervise an aviation duty section IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series) and the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series), The Coast Guard Organization Manual, COMDTINST M5400.7 (series) and unit directives.		
Intent:	Manage an Aviation Engineering Duty Section. Determine unit needs and carry out the daily routine. Direct appropriate personnel to accomplish assigned work and to ensure all tasks are completed as scheduled. Communicate with the various shops to coordinate personnel requirements in order to complete scheduled and unscheduled maintenance outside normal working hours. Ensure that qualified aircrew members and properly configured aircraft are assigned to meet the flight schedule. Maintain the unit's readiness posture.		

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Note:

This performance qualification shall be signed off by the Leading Chief Petty Officer.

 8.A.01c Manage unit aircrew flight requirements IAW the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series), the Management and Administration Of Aviation Incentive Pays, COMDTINST 7220.39 (series), and the Special Duty Assignment Pay (SDAP), COMDTINST 1430.1 (series). Intent: Administer the unit Hazardous Duty Incentive Pay (HDIP) and Special Duty Assignment Pay (SDAP) programs and ensure unit personnel meet minimum aircrew requirements. 8.A.02c Manage unit Aviation Engineering Department personnel IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M370.1 (series), the Coast Guard Air Operations Manual, COMDTINST M5312.11 (series) and local directives. Intent: To ensure all shops, maintenance shifts, and duty sections are staffed with the correct personnel with proper qualifications to complete the mission. Note: This performance qualification shall be signed off by the Aviation Engineering Officer or the Leading Chief Petty Officer. 8.A.03c MANAGE unit Aviation Enlisted Assignment Process IAW the Personnel Manual, COMDTINST M1000.6 (series) and Coast Guard Personnel Center (CGPC) Directives. Intent: Review the unit Personnel Allowance List (PAL) and the qualifications of assigned personnel. Coordinate with CGPC to ensure that the unit staffing needs are met through skill based assignments. 8.A.04c Manage unit Airman Program IAW Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series). Intent: Monitor and evaluate individual's progress through the Airman Program. Ensure all requirements have been successfully completed and documented prior to recommending individuals to attend Aviation "A" School. 8.A.05c Manage unit personnel Qualification Codes IAW the Enlisted Qualification Codes Manual, COMDTINST M1414.9 (series). Intent: To ensure unit's personnel's Qualification Codes are properly documented. 	RATING: AV	IATION MAINTENANCE TECHNICIAN	INIT	DATE
Duty Assignment Pay (SDAP) programs and ensure unit personnel meet minimum aircrew requirements. 8.A.02c Manage unit Aviation Engineering Department personnel IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series), the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series) and local directives. Intent: To ensure all shops, maintenance shifts, and duty sections are staffed with the correct personnel with proper qualifications to complete the mission. Note: This performance qualification shall be signed off by the Aviation Engineering Officer or the Leading Chief Petty Officer. 8.A.03c MANAGE unit Aviation Enlisted Assignment Process IAW the Personnel Manual, COMDTINST M1000.6 (series) and Coast Guard Personnel Center (CGPC) Directives. Intent: Review the unit Personnel Allowance List (PAL) and the qualifications of assigned personnel. Coordinate with CGPC to ensure that the unit staffing needs are met through skill based assignments. 8.A.04c Manage unit Airman Program IAW Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series). Intent: Monitor and evaluate individual's progress through the Airman Program. Ensure all requirements have been successfully completed and documented prior to recommending individuals to attend Aviation "A" School. 8.A.05c Manage unit personnel Qualification Codes IAW the Enlisted Qualification Codes Manual, COMDTINST M1414.9 (series).	8.A.01c	Operations Manual, COMDTINST M3710.1 (series), the Management and Administration Of Aviation Incentive Pays, COMDTINST 7220.39 (series), and the Special Duty Assignment Pay (SDAP), COMDTINST		
Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series), the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series), the Staffing Standards Manual, COMDTINST M3710.1 (series) and local directives. Intent: To ensure all shops, maintenance shifts, and duty sections are staffed with the correct personnel with proper qualifications to complete the mission. Note: This performance qualification shall be signed off by the Aviation Engineering Officer or the Leading Chief Petty Officer. 8.A.03c MANAGE unit Aviation Enlisted Assignment Process IAW the Personnel Manual, COMDTINST M1000.6 (series) and Coast Guard Personnel Center (CGPC) Directives. Intent: Review the unit Personnel Allowance List (PAL) and the qualifications of assigned personnel. Coordinate with CGPC to ensure that the unit staffing needs are met through skill based assignments. 8.A.04c Manage unit Airman Program IAW Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series). Intent: Monitor and evaluate individual's progress through the Airman Program. Ensure all requirements have been successfully completed and documented prior to recommending individuals to attend Aviation "A" School. 8.A.05c Manage unit personnel Qualification Codes IAW the Enlisted Qualification Codes Manual, COMDTINST M1414.9 (series). Intent: To ensure unit's personnel's Qualification Codes are properly	Intent:	Duty Assignment Pay (SDAP) programs and ensure unit personnel		
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RATING: AV	IATION MAINTENANCE TECHNICIAN	INIT	DATE
Major Du	uty: B. Aircraft Maintenance		
Task:			
4.B.01c	Document aircraft discrepancies and appropriate corrective actions IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Demonstrate proficiency in maintaining aircraft logs and records, with an emphasis on the CG-4377's (series) and CG-5181 forms, and the Maintenance Discrepancy Reports (Squawks).		
4.B.02c	Document scheduled and unscheduled maintenance using the Aviation Computerized Maintenance System IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Properly complete maintenance documentation on an ACMS MPC.		
4.B.03c	Service the following aircraft systems IAW the Aviation Computerized Maintenance System (ACMS):		
	 Flight Controls Power Plants Power Train Aircraft Structures Electrical Hydraulics Fuel Environmental Control Life Support Fire Protection/Detection 		
Intent:	Have a basic understanding of aircraft systems operation. Utilize standard maintenance practices and appropriate safety procedures.		
4.B.01	SERVICE aircraft power plant systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Develop entry-level skills to perform maintenance on aircraft engines.		
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RATING: A\	/IATION MAINTENANCE TECHNICIAN	INIT	DATE
4.B.02	SERVICE aircraft power train systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Develop entry-level skills to perform maintenance on aircraft power train systems (propellers, gearboxes, rotor assemblies and drive shafts).		
4.B.03	SERVICE aircraft Auxiliary Power Unit (APU) systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Develop entry-level skills to perform maintenance on aircraft APU systems.		
4.B.04	SERVICE aircraft engine start systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Develop entry-level skills to perform maintenance on aircraft engine start systems.		
4.B.05	SERVICE aircraft fuel systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Develop entry-level skills to perform maintenance on aircraft fuel systems.		
4.B.06	SERVICE aircraft lubrication systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Develop entry-level skills to perform maintenance on aircraft lubrication systems.		
4.B.07	SERVICE aircraft bleed air systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Develop entry-level skills to perform maintenance on aircraft bleed air (engine start, pressurization, anti-ice and de-ice) systems.		
4.B.08	SERVICE aircraft environmental control systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Develop entry-level skills to perform maintenance on aircraft environmental control (cabin heating, cooling and pressurization) systems.		
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CG-3303C-			5
	/IATION MAINTENANCE TECHNICIAN	INIT	DATE
4.B.09	SERVICE aircraft fire protection systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Develop entry-level skills to perform maintenance on aircraft fire protection and suppression systems, and the handling of explosive cartridges.		
4.B.10	SERVICE aircraft hydraulic systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Develop entry-level skills to perform maintenance on aircraft hydraulic systems.		
4.B.11	SERVICE aircraft flight control systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Develop entry-level skills to perform maintenance on aircraft flight control systems.		
4.B.12	SERVICE aircraft landing gear systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Develop entry-level skills to perform maintenance on aircraft landing gear systems, wheels and brakes.		
4.B.13	SERVICE helicopter hoist systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Develop entry-level skills to perform maintenance on helicopter hoist systems, and the handling of explosive cartridges.		
4.B.14	SERVICE aircraft structures IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series) and AFTO 1-1A-1, General Manual for Structural Repair.		
Intent:	Develop entry-level skills in corrosion control and structural repair.		
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CG-3303C- RATING: AV	3 (Rev. 02-03) (Effective for the MAY 2004 Active Duty SWE) VIATION MAINTENANCE TECHNICIAN	INIT	DATE
4.B.15	Service the electrical components of the following aircraft systems IAW the Aviation Computerized Maintenance System (ACMS): Power plant Power train Auxiliary Power Unit Engine Start Fuel Lubrication Bleed Air Environmental Control Fire Protection Hydraulics Flight Controls Landing Gear Helicopter Hoist		
Intent:	Develop entry-level skills to perform maintenance on aircraft systems electrical components, using volt/ohm meter and applicable system test equipment.		
5.B.01	MAINTAIN aircraft power plant systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Under minimal supervision, perform scheduled and unscheduled maintenance, and complete operational checks on aircraft engines.		
5.B.02	MAINTAIN aircraft power train systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Under minimal supervision, perform scheduled and unscheduled maintenance and complete operational checks on aircraft power train systems (propellers, gearboxes, rotor assemblies and drive shafts).		
5.B.03	MAINTAIN aircraft Auxiliary Power Unit (APU) systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Under minimal supervision, perform scheduled and unscheduled maintenance, and complete operational checks on aircraft APU's.		
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RATING: A\	/IATION MAINTENANCE TECHNICIAN	INIT	DATE
5.B.04	MAINTAIN aircraft engine start systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Under minimal supervision, perform scheduled and unscheduled maintenance, and complete operational checks on aircraft engine start systems.		
5.B.05	MAINTAIN aircraft fuel systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Under minimal supervision, perform scheduled and unscheduled maintenance, and complete operational checks on aircraft fuel systems.		
5.B.06	MAINTAIN aircraft lubrication systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Under minimal supervision, perform scheduled and unscheduled maintenance, and complete operational checks on aircraft lubrication systems.		
5.B.07	MAINTAIN aircraft bleed air systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Under minimal supervision, perform scheduled and unscheduled maintenance, and complete operational checks on aircraft bleed air systems.		
5.B.08	MAINTAIN aircraft environmental control systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Under minimal supervision, perform scheduled and unscheduled maintenance, and complete operational checks on aircraft environmental control systems.		
5.B.09	MAINTAIN aircraft fire protection systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Under minimal supervision, perform scheduled and unscheduled maintenance, and complete operational checks on aircraft fire protection and suppression systems.		
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CG-3303C-3	(Rev. 02-03)	(Effective for th	e MAY 2004	Active Duty SWE	Ξ)

RATING: A	3 (Rev. 02-03) (Effective for the MAY 2004 Active Duty SWE) //ATION MAINTENANCE TECHNICIAN	INIT	DATE
5.B.10	MAINTAIN aircraft hydraulic systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Under minimal supervision, perform scheduled and unscheduled maintenance, and complete operational checks on aircraft hydraulic systems.		
5.B.11	MAINTAIN aircraft mechanical flight control systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Under minimal supervision, perform scheduled and unscheduled maintenance, and complete operational checks on aircraft flight control systems.		
5.B.12	MAINTAIN aircraft landing gear systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Under minimal supervision, perform scheduled and unscheduled maintenance, and complete operational checks on aircraft landing gear systems, wheels and brakes.		
5.B.13	MAINTAIN helicopter hoist systems IAW the Aviation Computerized Maintenance System (ACMS).		
Intent:	Under minimal supervision, perform scheduled and unscheduled maintenance, and complete operational checks on helicopter hoist systems.		
5.B.14	MAINTAIN aircraft structures IAW the Aviation Computerized Maintenance System (ACMS), the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series), AFTO 1-1A-1 General Manual for Structural Repair and AFTO 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Control.		
Intent:	Repair structural damage (cracks, corrosion, and impact damage) on primary and secondary aircraft structures utilizing the proper tools and equipment. Observe and follow all of the safety and procedural requirements outlined in the appropriate technical manuals. Ensure the proper documentation of all work performed.		
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RATING: AV	IATION MAINTENANCE TECHNICIAN	INIT	DATE
6.B.01c	Review Aviation Computerized Maintenance System (ACMS) data to schedule aircraft and shop maintenance IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Analyze aircraft records and reports to develop a maintenance plan in order to maximize the effectiveness of maintenance and aircraft availability.		
6.B.01	TROUBLESHOOT aircraft power plant systems IAW the Aviation Computerized Maintenance System (ACMS) and the applicable technical publication.		
Intent:	Without supervision diagnose aircraft engine discrepancies and repair as necessary, following correct troubleshooting procedures.		
6.B.02	TROUBLESHOOT aircraft power train systems IAW the Aviation Computerized Maintenance System (ACMS) and the applicable technical publication.		
Intent:	Without supervision diagnose aircraft power train (propellers, gearboxes, rotor assemblies, and drive shafts) discrepancies and repair as necessary, following correct troubleshooting procedures.		
6.B.03	TROUBLESHOOT aircraft Auxiliary Power Unit (APU) systems IAW the Aviation Computerized Maintenance System (ACMS) and the applicable technical publication.		
Intent:	Without supervision diagnose aircraft APU discrepancies and repair as necessary, following correct troubleshooting procedures.		
6.B.04	TROUBLESHOOT aircraft engine start systems IAW the Aviation Computerized Maintenance System (ACMS) and the applicable technical publication.		
Intent:	Without supervision diagnose aircraft engine start system discrepancies and repair as necessary, following correct troubleshooting procedures.		
6.B.05	TROUBLESHOOT aircraft fuel systems IAW the Aviation Computerized Maintenance System (ACMS) and the applicable technical publication.		
Intent:	Without supervision diagnose aircraft fuel system discrepancies and repair as necessary, following correct troubleshooting procedures.		
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RATING: A	/IATION MAINTENANCE TECHNICIAN	INIT	DATE
6.B.06	TROUBLESHOOT aircraft lubrication systems IAW the Aviation Computerized Maintenance System (ACMS) and the applicable technical publication.		
Intent:	Without supervision diagnose aircraft lubrication system discrepancies and repair as necessary, following correct troubleshooting procedures.		
6.B.07	TROUBLESHOOT aircraft bleed air systems IAW the Aviation Computerized Maintenance System (ACMS) and the applicable technical publication.		
Intent:	Without supervision diagnose aircraft bleed air system discrepancies and repair as necessary, following correct troubleshooting procedures.		
6.B.08	TROUBLESHOOT aircraft environmental control systems IAW the Aviation Computerized Maintenance System (ACMS) and the applicable technical publication.		
Intent:	Without supervision diagnose aircraft cabin heating, cooling and pressurization system discrepancies and repair as necessary, following correct troubleshooting procedures.		
6.B.09	TROUBLESHOOT aircraft fire protection systems IAW the Aviation Computerized Maintenance System (ACMS) and the applicable technical publication.		
Intent:	Without supervision diagnose aircraft fire protection and suppression system discrepancies and repair as necessary, following correct troubleshooting procedures.		
6.B.10	TROUBLESHOOT aircraft hydraulic systems IAW the Aviation Computerized Maintenance System (ACMS) and the applicable technical publication.		
Intent:	Without supervision diagnose aircraft hydraulic system discrepancies and repair as necessary, following correct troubleshooting procedures.		
6.B.11	TROUBLESHOOT aircraft flight control systems IAW the Aviation Computerized Maintenance System (ACMS) and the applicable technical publication.		
Intent:	Without supervision diagnose aircraft flight control system discrepancies and repair as necessary, following correct troubleshooting procedures.		
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RATING: AV	IATION MAINTENANCE TECHNICIAN	INIT	DATE
6.B.12	TROUBLESHOOT aircraft landing gear systems IAW the Aviation Computerized Maintenance System (ACMS) and the applicable technical publication.		
Intent:	Without supervision diagnose landing gear, wheels and brake discrepancies and repair as necessary, following correct troubleshooting procedures.		
6.B.13	TROUBLESHOOT helicopter hoist systems IAW the Aviation Computerized Maintenance System (ACMS) and the applicable technical publication.		
Intent:	Without supervision diagnose hoist system discrepancies and repair as necessary, following correct troubleshooting procedures.		
6.B.14	TROUBLESHOOT aircraft structures IAW the Aviation Computerized Maintenance System (ACMS) and the applicable technical publication.		
Intent:	Without supervision inspect, evaluate and devise a repair scheme for aircraft structural damage (corrosion, cracks, and impact damage) on primary and secondary structures.		
7.B.01c	Review completed maintenance forms, reports and instructions for compliance IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	To ensure that all maintenance documentation and historical information is current and correct.		
7.B.02c	Manage personnel and resources to meet operational commitments IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series), The Coast Guard Organizational Manual, COMDTINST M5400.7 (series), and the unit directives.		
Intent:	Determine and prioritize tasking, communicate with various shops to assign personnel in order to complete work requirements, coordinate and supervise scheduled and unscheduled aircraft maintenance, and ensure aircraft availability to meet the flight schedule.		
Note:	This performance qualification shall be signed off by the Aviation Engineering Officer or the Aviation Maintenance Officer.		
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RATING: AV	/IATION MAINTENANCE TECHNICIAN	INIT	DATE
Major D	uty: C. Shop Maintenance		
Task:			
4.C.01	Repair airframe components IAW the General Manual for Structural Repair Manual TO 1-1A-1.		
Intent:	Under direct supervision develop entry-level skills in order to effect repairs (lap patches, flush patches, and doublers) on aircraft components (cowling, fairings, etc.).		
4.C.02	Apply aircraft paint IAW the Organic Coatings Manual TO 1-1-8 and the Aircraft Weapons Cleaning and Corrosion Control Manual NAVAIR 01-1A-509.		
Intent:	Under direct supervision preserve and protect aircraft surfaces through the proper application of aircraft paints.		
4.C.03	Repair aircraft composite components IAW the General Advanced Composite Repair Process Manual TO 1-1-690.		
Intent:	Under direct supervision assess, classify, and repair damage to composite structures.		
4.C.04	Inspect aircraft components IAW the Nondestructive Inspection Methods Manual TO 33B-1-1.		
Intent:	Under direct supervision detect flaws, or defects in aircraft components utilizing the Electromagnetic, Liquid Penetrate and Magnetic Particle inspection methods.		
4.C.05	Replace seals in aircraft components IAW the Aviation Computerized Maintenance System (ACMS), the Aviation Hydraulic Manual NAVAIR 01-1A-17 and applicable technical publications.		
Intent:	Under direct supervision ensure the proper handling and installation of O-rings, packings and gaskets in aircraft components.		
4.C.06	Build up aircraft tire and wheel assemblies IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	Under direct supervision tear down, inspect and assemble tires and wheels.		
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CG-3303C-3	(Rev 02-03)	(Effective for	r the MAY	2004 Active	Duty SWF)
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CG-3303C-3	3 (Rev. 02-03) (Effective for the MAY 2004 Active Duty SWE)		
RATING: AV	IATION MAINTENANCE TECHNICIAN	INIT	DATE
5.C.01c	Preserve aircraft and shop components IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series) and the Aviation Computerized Maintenance System (ACMS).		
Intent:	Protect components against deterioration and damage during shipment and storage.		
5.C.02c	De-Preserve aircraft and shop components IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series) and the Aviation Computerized Maintenance System (ACMS).		
Intent:	Return preserved components to a serviceable condition.		
5.C.01	Inspect aircraft engine internal components IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	Under minimal supervision inspect and evaluate engine components for serviceability.		
6.C.01c	Perform ground/air handling, transportation and disposal of hazardous material (petro-chemical, biological) IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series), the Aviation Computerized Maintenance System (ACMS), the Safety and Environmental Health Manual, COMDTINST M5100.47 (series), applicable Material Safety Data Sheets (MSDS), Air Shipping of Hazardous Material, AFJMAN 24-204, state and local regulations.		
Intent:	To ensure proper procedures for the handling, shipping and disposal of hazardous material via commercial contract, or Coast Guard aircraft, are strictly adhered to.		
Major Du	ıty: D. Line Crew		
Task:			
4.D.01c	Service aircraft ground support equipment IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	To have a basic understanding of ground support equipment inspections, operations, and safety procedures.		
NAME (Last,	First, Middle Initial)	SOCIAL S	SECURITY NO.
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RATING: AVIATION MAINTENANCE TECHNICIAN	INIT	DATE
 4.D.02c Perform the following line crew duties IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series) and local instructions: Fuel (aircraft and fuel truck) Fuel Sampling (aircraft and fuel truck) Aircraft ground handling Taxi Director Aircraft wash and rinse operations Aircraft external power operations Fireguard Foreign Object Damage (FOD) prevention 		
Intent: To perform flight line operations properly and safely.		
GLOSSARY		
APPLICABLE PUBLICATIONS : The appropriate aircraft system, compone general aviation instruction.	ent or	
APPLY: To put on. To use practically. To concentrate.		
BUILD UP : To construct by combining or assembling.		
DE-PRESERVE : To remove preservation materials from shipped and store supplies and equipment, and inspect for serviceability.	d	
DOCUMENT : To record accurate and precise information (via hand writing electronic means) in order to preserve historical data.	or	
ENTRY-LEVEL SKILLS : While under direct supervision perform: basic sys operation, component identification, component removal and replacement procedures, the usage of applicable test equipment, and compliance with th appropriate safety precautions.		
INSPECT : Examine, test, measure, or evaluate people, spaces or equipme installation, operation, and performance in accordance with established standards, specifications, drawings, technical manuals, directives, policies other requirements.		
MAINTAIN: To preserve, fix, or keep in good repair under minimal supervis	sion.	
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CG-3303C-3 (Rev. 02-03) (Effective for the MAY 2004 Active Duty SWE) RATING: AVIATION MAINTENANCE TECHNICIAN	INUT	DATE
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MANAGE : To handle or direct with a degree of skill or specialized knowledge. To exercise executive, administrative, and supervisory direction.		
PERFORM: To carry out an action or pattern of behavior.		
PREPARE : Plan, gather, and assemble information to produce a document (i.e., forms and schedules).		
PRESERVE : To protect supplies and equipment against deterioration and damage during shipment and storage.		
PROCESS : To initiate a series of actions or operations leading to a particular end.		
REPAIR: To return to airworthy status.		
REPLACE : To remove a component and install a substitute in its place.		
REVIEW : To examine a document or process for accuracy in content and/or format and report errors or updates to the author or controlling authority.		
SERVICEABLE: Usable. Ready for installation		
SERVICE : To perform minor maintenance under direct supervision.		
SUBMIT : To prepare a report or form following a defined process and forwarding it to the prescribed authority.		
TROUBLESHOOT : The process of diagnosing, locating and repairing faults in equipment by means of systematic checking or analysis without supervision.		
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U.S. DEPARTMENT OF HOMELAND SECURITY U.S. COAST GUARD CG-3303C-4 (Rev. 02-03)

RECORD OF PERFORMANCE QUALIFICATIONS AVT

INSTRUCTIONS

Record of Performance Qualifications shall be completed for enlisted personnel of the Coast Guard as outlined in the Enlisted Performance Qualifications Manual, COMDTINST M1414.8 (series). As proficiency in each performance qualification is demonstrated by actually performing the task listed, the DATE and INITIALS column shall be completed. Personnel are required to demonstrate proficiency in all new performance qualifications assigned to their rating. Performance qualifications previously demonstrated, dated and initialed off will not be recertified. Some performance qualifications include intent statements to help clarify the requirements of the task that is to be performed.

RATING			ABBREVIATION
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NAME (Last, First, Middle Initial)			SOCIAL SECURITY NUMBER

CG-3303C-4 (Rev. 02-03) (Effective for the May 2004 Active Duty SWE) SIGNATURE OF SUPERVISOR DATE INITIALS NAME/SIGNATURE RATE UNIT REMARKS

CG-3303C-4	(Rev. 02-03)	(Effective for the Ma	y 2004 Active Duty SWE)

RATING: AVI	ONICS TECHNICIAN	INIT	DATE
Major Du	ty: A. Aviation Administrative and Management		
Task:			
5.A.01c	Process aviation materiel IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Demonstrate the ability to perform the procurement processes outlined in the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series) by properly requisitioning, handling, and disposing of aircraft parts, tools, and consumables.		
5.A.02c	Submit aircraft publication change requests IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Recognize discrepancies in aircraft publications, prepare the appropriate change request, and submit for evaluation.		
5.A.03c	Submit an Unsatisfactory Report (UR) of Aeronautical Equipment (CG4010) IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Document and forward information concerning failures of aeronautical equipment, ground support equipment, and tools.		
6.A.01c	Supervise an aviation duty section IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series) and the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series), The Coast Guard Organization Manual, COMDTINST M5400.7 (series) and unit directives.		
Intent:	Manage an Aviation Engineering Duty Section. Determine unit needs and carry out the daily routine. Direct appropriate personnel to accomplish assigned work and ensure all tasks are completed as scheduled. Communicate with the various shops to coordinate personnel requirements in order to complete scheduled and unscheduled maintenance outside normal working hours. Ensure qualified aircrew members and properly configured aircraft are assigned to meet the flight schedule. Maintain the unit's readiness posture.		
Note:	This performance qualification shall be signed off by the Leading Chief Petty Officer.		
NAMF (Last	First, Middle Initial)	SOCIAL S	SECURITY NO.

RATING: AVI	ONICS TECHNICIAN	INIT	DATE
8.A.01c	Manage unit aircrew flight requirements IAW the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series), the Management and Administration Of Aviation Incentive Pays, COMDTINST 7220.39 (series), and the Special Duty Assignment Pay (SDAP), COMDTINST 1430.1 (series).		
Intent:	Administer the unit Hazardous Duty Incentive Pay (HDIP) and Special Duty Assignment Pay (SDAP) programs and ensure unit personnel meet minimum aircrew requirements.		
8.A.02c	Manage unit Aviation Engineering Department personnel IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series), the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series), the Staffing Standards Manual, COMDTINST M5312.11 (series) and local directives.		
Intent:	To ensure all shops, maintenance shifts, and duty sections are staffed with the correct personnel with proper qualifications to complete the mission.		
Note:	This performance qualification shall be signed off by the Aviation Engineering Officer or the Leading Chief Petty Officer.		
8.A.03c	MANAGE unit Aviation Enlisted Assignment Process IAW the Personnel Manual, COMDTINST M1000.6 (series) and Coast Guard Personnel Center (CGPC) Directives.		
Intent:	Review the unit Personnel Allowance List (PAL) and the qualifications of assigned personnel. Coordinate with CGPC to ensure that the unit staffing needs are met through skill based assignments.		
8.A.04c	Manage unit Airman Program IAW Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Monitor and evaluate individual's progress through the Airman Program. Ensure all requirements have been successfully completed and documented prior to recommending individuals to attend Aviation "A" School.		
8.A.05c	Manage unit personnel Qualification Codes IAW the Enlisted Qualification Codes Manual, COMDTINST M1414.9 (series).		
Intent:	To ensure unit's personnel's Qualification Codes are properly documented.		
NAME (Last,	First, Middle Initial)	SOCIAL S	SECURITY NO.

RATING: AVI	ONICS TECHNICIAN	INIT	DATE
Major Du	ty: B. Aircraft Maintenance		
Task:			
4.B.01c	Document aircraft discrepancies and appropriate corrective actions IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Demonstrate proficiency in maintaining aircraft logs and records, with an emphasis on the CG-4377's (series) and CG-5181 forms, and the Maintenance Discrepancy Reports (Squawks).		
4.B.02c	Document scheduled and unscheduled maintenance using the Aviation Computerized Maintenance System (ACMS) IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Properly complete maintenance documentation on an ACMS MPC.		
4.B.03c	Service the following aircraft systems IAW the Aviation Computerized Maintenance System (ACMS):		
	Flight Controls Device Plants		
	Power PlantsPower Train		
	Aircraft Structures		
	Electrical		
	Hydraulics		
	• Fuel		
	Environmental Control Life Support		
	Life SupportFire Protection/Detection		
Intent:	Have a basic understanding of aircraft systems operation. Utilize standard maintenance practices and appropriate safety procedures.		
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RATING: AVIO	NICS TECHNICIAN	INIT	DATE
4.B.01	Service aircraft electrical cables, wires and connectors IAW the		

Aircraft Computerized Maintenance System (ACMS), the Aircraft Wiring and Electronics Wiring Manual, T.O. 1-1A-14, and the Aircraft Electric and Electronic Wiring Manual, NAVAIR 01-1A-505 (series).

Intent: Develop entry-level skills including wire identification, wire diagram interpretation, terminations and repair procedures in order to perform

maintenance on aircraft wiring systems.

4.B.02 Service aircraft electrical and electronic equipment for corrosion IAW the Aviation Computerized Maintenance System (ACMS) and NAVAIR 16-1-540.

Intent: Develop entry-level skills to perform inspections and maintenance on corroded electrical and electronic equipment.

- **4.B.03** Service the electrical and indicating components of the following aircraft systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications:
 - Anti-Ice/De-Ice
 - Fuel
 - Power Plant
 - Fire Protection Detection
 - Landing Gear
 - Hydraulic/Pneumatic
 - Power Train
 - Flight Control
 - Environmental Control

Intent: Develop entry-level skills in order to perform maintenance on aircraft systems electrical and indicating components.

4.B.04 Service aircraft AC power systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.

Intent: Develop entry-level skills to perform maintenance on aircraft AC power systems.

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TATING. AV	IONICS TECHNICIAN	INIT	DATE
4.B.05	Service aircraft DC power systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	Develop entry-level skills to perform maintenance on aircraft DC power systems.		
4.B.06	Service aircraft lighting systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	Develop entry-level skills to perform maintenance on aircraft lighting systems.		
4.B.07	Service the following aircraft communication systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications:		
	 ICS VHF-AM VHF-FM UHF HF Secure SATCOM 		
Intent:	Develop entry-level skills to perform maintenance on aircraft communication systems.		
4.B.08	Service the following aircraft navigation systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications:		
	 VOR/ILS TACAN DF ADF GPS Compass Inertial RADALT IFF TCAS 		
Intent:	Develop entry-level skills to perform maintenance on aircraft navigation systems.		
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4.B.09 Service aircraft radar systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications: Intent: Develop entry-level skills to perform maintenance on aircraft radar systems. 4.B.10 Service aircraft Air Data Systems (ADS) IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications: Intent: Develop entry-level skills to perform maintenance on aircraft ADS systems. 4.B.11 Service aircraft Flight Director Systems (FDS) IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications: Intent: Develop entry-level skills to perform maintenance on aircraft FDS 4.B.12 Service aircraft Automatic Flight Systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications: Intent: Develop entry-level skills to perform maintenance on aircraft automatic flight systems (AFCS and autopilot). 4.B.13 Service aircraft Flight Management Systems (FMS) IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications: Intent: Develop entry-level skills to perform maintenance on aircraft FMS 4.B.14 Service aircraft Flight Recording Systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications: Intent: Develop entry-level skills to perform maintenance on aircraft flight recording (voice and flight data) systems.	DATE
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NAME (Last, First, Middle Initial) SOCIAL SE	CURITY NO.

RATING: AV	IONICS TECHNICIAN	INIT	DATE
5.B.01	Troubleshoot aircraft electrical cables, wires and connectors IAW the Aviation Computerized Maintenance System (ACMS), the Aircraft Wiring and Electronics Wiring Manual, T.O. 1-1A-14 and the Aircraft Electric and Electronic Wiring Manual, NAVAIR 01-1A-505 (series).		
Intent:	Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies.		
5.B.02	Troubleshoot the electrical and indicating components of aircraft anti- ice/de-ice systems (electrical and pneumatic) IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies.		
5.B.03	Maintain the electrical and indicating components of aircraft fuel systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	To perform scheduled and unscheduled maintenance to include calibration and operational checks.		
5.B.04	Maintain the electrical and indicating components of aircraft power plants IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	To perform scheduled and unscheduled maintenance to include calibration and operational checks.		
5.B.05	Troubleshoot the electrical and indicating components of aircraft fire detection systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies.		
5.B.06	Troubleshoot the electrical and indicating components of aircraft landing gear systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies.		
NAME (Last,	First, Middle Initial)	SOCIAL S	SECURITY NO.

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RATING: AVI	ONICS TECHNICIAN	INIT	DATE
5.B.13	Troubleshoot aircraft lighting systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies.		
5.B.14	Troubleshoot the following aircraft communication systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
	 ICS VHF-AM VHF-FM UHF HF Secure SATCOM 		
Intent:	Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies.		
NOTE:	Each item above must be initialed and dated individually.		
5.B.15	Maintain the following aircraft navigation systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
	 VOR/ILS TACAN DF ADF GPS Compass Inertial RADALT IFF TCAS 		
Intent:	To perform scheduled and unscheduled maintenance, and operational checks.		
NOTE:	Each item above must be initialed and dated individually.		
NAME (Last,	First, Middle Initial)	SOCIAL	SECURITY NO.

RATING: AVI	ONICS TECHNICIAN	INIT	DATE
5.B.16	Maintain aircraft radar systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	To perform scheduled and unscheduled maintenance, and operational checks.		
5.B.17	Maintain aircraft Air Data Systems (ADS) IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	To perform scheduled and unscheduled maintenance, and operational checks.		
5.B.18	Maintain aircraft Flight Director Systems (FDS) IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	To perform scheduled and unscheduled maintenance, and operational checks.		
5.B.19	Maintain aircraft Automatic Flight Systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	To perform scheduled and unscheduled maintenance, and operational checks.		
5.B.20	Maintain aircraft Flight Management Systems (FMS) IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	To perform scheduled and unscheduled maintenance, and operational checks.		
6.B.01c	Review Aviation Computerized Maintenance System (ACMS) data to schedule aircraft and shop maintenance IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Analyze aircraft records and reports to develop a maintenance plan in order to maximize the effectiveness of maintenance and aircraft availability.		
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Troubleshoot the electrical and indicating components of aircraft fuel system IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications. Intent: Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies. 6.B.02 Troubleshoot the electrical and indicating components of aircraft power plant IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications. Intent: Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies. 6.B.03 Troubleshoot the electrical and indicating components of aircraft hydraulic systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications. Intent: Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies. 6.B.04 Troubleshoot the electrical and indicating components of aircraft power train IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications. Intent: Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies. 6.B.05 Troubleshoot the electrical and indicating components of aircraft flight control IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications. Intent: Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies. 6.B.06 Troubleshoot the electrical and indicating components of aircraft environmental control IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications. Intent: Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies. 6.B.06 Troubleshoot the electrical and indicating components of aircraft environmental control IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications. Intent: Without supervision, perform scheduled and unscheduled maintenance, diagnose	RATING: AVI	IONICS TECHNICIAN	INIT	DATE
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maintenance, diagnose and repair discrepancies. 6.B.03 Troubleshoot the electrical and indicating components of aircraft hydraulic systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications. Intent: Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies. 6.B.04 Troubleshoot the electrical and indicating components of aircraft power train IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications. Intent: Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies. 6.B.05 Troubleshoot the electrical and indicating components of aircraft flight control IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications. Intent: Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies. 6.B.06 Troubleshoot the electrical and indicating components of aircraft environmental control IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications. Intent: Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies. Intent: Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies.	6.B.02	power plant IAW the Aviation Computerized Maintenance System		
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environmental control IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications. Intent: Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies.	Intent:			
maintenance, diagnose and repair discrepancies.	6.B.06	environmental control IAW the Aviation Computerized Maintenance		
NAME (Last, First, Middle Initial) SOCIAL SECURITY NO.	Intent:	•		
	NAME (Last,	First, Middle Initial)	SOCIAL S	SECURITY NO.

RATING: AV	IONICS TECHNICIAN	INIT	DATE
6.B.07	Troubleshoot aircraft AC power systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies.		
6.B.08	Troubleshoot aircraft DC power systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies.		
6.B.09	Troubleshoot the following aircraft navigation systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
	 VOR/ILS TACAN DF ADF GPS Compass Inertial RADALT IFF TCAS 		
Intent:	Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies.		
NOTE:	Each item above must be initialed and dated individually.		
6.B.10	Troubleshoot aircraft radar systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies.		
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RATING: AVI	ONICS TECHNICIAN	INIT	DATE
6.B.11	Troubleshoot aircraft Air Data Systems (ADS) IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies.		
6.B.12	Troubleshoot aircraft Flight Director Systems (FDS) IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies.		
6.B.13	Troubleshoot aircraft Automatic Flight Systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies.		
6.B.14	Troubleshoot aircraft Flight Management Systems (FMS) IAW the Aviation Computerized Maintenance System (ACMS) and applicable technical publications.		
Intent:	Without supervision, perform scheduled and unscheduled maintenance, diagnose and repair discrepancies.		
7.B.01c	Review completed maintenance forms, reports and instructions for compliance IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	To ensure that all maintenance documentation and historical information is current and correct.		
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CG-3303C-4	(Rev. 02-03) (Effective for the May 2004 Active Duty SWE)	1
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RATING: AVIO	ONICS TECHNICIAN	INIT	DATE
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7.B.02c	Manage personnel and resources to meet operational commitments IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series), The Coast Guard Organization Manual, COMDTINST M5400.7 (series), and the unit directives.		
Intent:	Determine and prioritize tasking, communicate with various shops to assign personnel in order to complete work requirements, coordinate and supervise scheduled and unscheduled aircraft maintenance, and ensure aircraft availability to meet the flight schedule.		
Note:	This performance qualification shall be signed off by the Aviation Engineering Officer or the Aviation Maintenance Officer.		
Major Du	ty: C. Shop Maintenance		
Task:			
5.C.01c	Preserve aircraft and shop components IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series) and the Aviation Computerized Maintenance System (ACMS).		
Intent:	Protect components against deterioration and damage during shipment and storage.		
5.C.02c	De-Preserve aircraft and shop components to a serviceable condition IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series) and the Aviation Computerized Maintenance System (ACMS).		
Intent:	Return preserved components to a serviceable condition.		
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5.C.01	Perform minimum performance checks on the following systems/components IAW the applicable technical publications: • VOR/ILS • TACAN R/T • GPS RECEIVER • VHF-AM R/T • VHF-FM R/T • UHF R/T • ICS SYSTEM		
	 TACAN R/T GPS RECEIVER VHF-AM R/T VHF-FM R/T UHF R/T 		
	VHF-AM R/TVHF-FM R/TUHF R/T		
	VHF-FM R/TUHF R/T		
	UHF R/T		
	- ICC CVCTEM		
	• ICS STSTEW		
Intent:	Utilizing applicable test equipment and publications, verify LRUs are performing to specifications.		
NOTE:	Each item above must be initialed and dated individually.		
6.C.01c	Perform ground/air handling, transportation and disposal of hazardous material (petro-chemical, biological) IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series), the Aviation Computerized Maintenance System (ACMS), the Safety and Environmental Health Manual, COMDTINST M5100.47 (series), applicable Material Safety Data Sheets (MSDS), Air Shipping of Hazardous Material, AFJMAN 24-204, state and local regulations.		
Intent:	To ensure proper procedures for the handling, shipping and disposal of hazardous material via commercial contract, or Coast Guard aircraft, are strictly adhered to.		
7.C.01	Manage the shop Electronic Inventory Records (EIR) IAW Electronics Manual, COMDTINST M10550.25 (series).		
Intent:	To ensure the EIR is correct and current.		
Major Dut	ty: D. Line Crew		
Task:			
4.D.01c	Service aircraft ground support equipment IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	To have a basic understanding of ground support equipment inspections, operations, and safety procedures.		
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RATING: AVI	ONICS TECHNICIAN	INIT	DATE
4.D.02c	 Perform the following line crew duties IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series) and local instructions: Fuel (aircraft and fuel truck) Fuel Sampling (aircraft and fuel truck) Aircraft ground handling Taxi Director Aircraft wash and rinse operations Aircraft external power operations Fireguard Foreign Object Damage (FOD) prevention 		
Intent:	To perform flight line operations properly and safely.		

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CG-3303C-4 (Rev. 02-03) (Effective for the May 2004 Active Duty SWE) RATING: AVIONICS TECHNICIAN	INIT	DATE
GLOSSARY		
APPLICABLE PUBLICATIONS : The appropriate aircraft system, component or general aviation instruction.		
APPLY: To put on. To use practically. To concentrate.		
BUILD UP: To construct by combining or assembling.		
DE-PRESERVE : To remove preservation materials from shipped and stored supplies and equipment, and inspect for serviceability.		
DOCUMENT : To record accurate and precise information (via hand writing or electronic means) in order to preserve historical data.		
ENTRY-LEVEL SKILLS : The ability to perform: basic system operation, component identification, component removal and replacement procedures, usage of applicable test equipment, and compliance to the appropriate safety precautions while under direct supervision.		
INSPECT : Examine, test, measure, or evaluate people, spaces or equipment for installation, operation, and performance in accordance with established standards, specifications, drawings, technical manuals, directives, policies or other requirements.		
MAINTAIN: To preserve, fix, or keep in good repair under minimal supervision.		
MANAGE : To handle or direct with a degree of skill or specialized knowledge. To exercise executive, administrative, and supervisory direction.		
PERFORM: To carry out an action or pattern of behavior.		
PREPARE : Plan, gather, and assemble information to produce a document (i.e., forms and schedules).		
PRESERVE : To protect supplies and equipment against deterioration and damage during shipment and storage.		
PROCESS : To initiate a series of actions or operations leading to a particular end.		
REPAIR: To return to airworthy status.		
REPLACE: To remove a component and install a substitute in it's place.		
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RATING: AVIONICS TECHNICIAN	INIT	DATE
REVIEW : To examine a document or process for accuracy in content and/or format and report errors or updates to the author or controlling authority.		
SERVICEABLE: Usable. Ready for installation		
SERVICE : To perform minor maintenance under direct supervision.		
SUBMIT : To prepare a report or form following a defined process and forwarding it to the prescribed authority.		
TROUBLESHOOT : The process of diagnosing, locating and repairing faults in equipment by means of systematic checking or analysis without supervision.		
NAME (Last, First, Middle Initial)	SOCIAL	ECURITY NO.

U. S. DEPARTMENT OF HOMELAND SECURITY U.S. COAST GUARD CG-3303C-5 (Rev. 02-03)

RECORD OF PERFORMANCE QUALIFICATIONS AST

INSTRUCTIONS

Record of Performance Qualifications shall be completed for enlisted personnel of the Coast Guard as outlined in the Enlisted Performance Qualifications Manual, COMDTINST M1414.8 (series). As proficiency in each performance qualification is demonstrated by actually performing the task listed, the DATE and INITIALS column shall be completed. Personnel are required to demonstrate proficiency in all new performance qualifications assigned to their rating. Performance qualifications previously demonstrated, dated and initialed off will not be recertified. Some performance qualifications include intent statements to help clarify the requirements of the task that is to be performed.

This revision to the AST EPQs only added the revised common qualifications approved at the Aviation Rating Review for AMT/AVT. Other EPQs remain unchanged and if members have completed tasks on the previous edition of the AST EPQs, then signatures may be transferred for those completed tasks to this new edition.

RATING AVIATION SURVIVAL TECHNIC	CIAN (Effective for	the MAY 2004 Active Duty	ABBREVIATION AST
SWE)	•		
DATE COMPLETED ALL PERFORMANCE QUA	ALIFICATIONS FOR RATE	LEVEL	
		_	_
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E-7	E-8	E	-9
NAME (Last, First, Middle Initial)			SOCIAL SECURITY NUMBER

	SIGNATURE (OF SUPERVISO)R	
DATE	NAME/SIGNATURE	INITIALS	RATE	UNIT
MARKS				

RATING: AV	IATION SURVIVAL TECHNICIAN	INIT	DATE
PERFOR	RMANCE QUALIFICATION FOR ADVANCEMENT		
Major Dເ	uty: A. Aviation Administrative and Management		
Task:			
4.A.01	Prepare and Deliver performance based rate related instruction IAW approved training methods.		
4.A.02	Complete the following Rescue Swimmer requirements IAW the Coast Guard Helicopter Rescue Swimmer Manual, COMDTINST M3710.4 (series) and the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series).		
	 Physical training. Lifesaving skills. Deployment, recovery and relocation procedures. Rescue swimmer flight operations. 		
5.A.01c	Process aviation materiel IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Demonstrate the ability to perform the procurement processes outlined in the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series) by properly requisitioning, handling, and disposing of aircraft parts, tools, and consumables.		
5.A.02c	Submit aircraft publication change requests IAW Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Recognize discrepancies in aircraft publications, prepare the appropriate change request, and submit for evaluation.		
5.A.03c	Submit an Unsatisfactory Report (UR) of Aeronautical Equipment (CG4010) IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Document and forward information concerning failures of aeronautical equipment, ground support equipment, and tools.		

KATING. A	VIATION SURVIVAL TECHNICIAN	INIT	DATE
5.A.01	Instruct aircrew members in the proper care, handling, and safe use of the following IAW the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series); the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series); the Pyrotechnic Screening, Marking and Countermeasure Devices Manual, NAVAIR 11-15-7; the Aviation Computerized Maintenance System (ACMS); and applicable aircraft flight publications: • Aviation personal protective equipment IAW Aviation Life Support Systems Manual, COMDTINST M13520.1 (series); Coast Guard Air Operations Manual, COMDTINST M3710.1 (series); and ACMS. • Aerial Delivery Systems (ADS) IAW Aviation Life Support Systems Manual, COMDTINST M13520.1 (series) and applicable aircraft flight manuals. • AirDrop Rafts (ADR) IAW Aviation Life Support Systems Manual, COMDTINST M13520.1 (series) and applicable aircraft flight manuals. • Air Sea Rescue Kit (ASRK) IAW Aviation Life Support Systems Manual, COMDTINST M13520.1 (series) and applicable aircraft flight manuals. • Survival equipment IAW Aviation Life Support Systems Manual, COMDTINST M13520.1 (series). • Aircrew Life Rafts IAW Aviation Life Support Systems Manual, COMDTINST M13520.1 (series). • Aircrew survival vests IAW Aviation Life Support Systems Manual, COMDTINST M13520.1 (series). • Aircraft passenger life preservers IAW Aviation Life Support Systems Manual, COMDTINST M13520.1 (series). • Rescue equipment IAW Aviation Life Support Systems Manual, COMDTINST M13520.1 (series) and applicable aircraft flight manuals. • Aircraft emergency equipment IAW applicable aircraft flight manuals. • Aircraft emergency equipment IAW applicable aircraft flight manuals.	INIT	DATE
5.A.02	Brief passengers in the safe use of aviation personal protective equipment and survival equipment IAW the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series); the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series); and applicable aircraft flight manuals.		
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RATING: AV	IATION SURVIVAL TECHNICIAN	INIT	DATE
5.A.03	Instruct aircrew members in the proper procedures for aircraft emergency egress and survival IAW the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series) and applicable aircraft flight manuals.		
5.A.04	Qualify as a Helicopter Rescue Swimmer IAW the Coast Guard Helicopter Rescue Swimmer Manual, COMDTINST M3710.4 (series) and the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series).		
6.A.01c	Supervise the helicopter rescue swimmer duty section IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series) and the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series), The Coast Guard Organization Manual, COMDTINST M5400.7 (series) and unit directives.		
Intent:	Manage the helicopter rescue swimmer duty section. Determine unit needs and carry out the daily routine. Direct appropriate personnel to accomplish assigned work and ensure all tasks are completed as scheduled. Communicate with various shops to coordinate personnel requirements in order to complete scheduled and unscheduled maintenance outside normal working hours. Ensure that qualified rescue swimmers and properly configured aircraft are assigned to the flight schedule. Maintain the unit's readiness posture.		
Note:	This performance qualification shall be signed off by the Leading Chief Petty Officer.		
6.A.01	Describe the procedures to prevent deterioration of pyrotechnics IAW the Pyrotechnic Screening, Marking and Countermeasure Devices Manual, NAVSEA SW050-AB-MMA-010.		
6.A.02	Organize and Implement local Rescue Swimmer training program IAW the Coast Guard Helicopter Rescue Swimmer Manual, COMDTINST M3710.4 (series).		
6.A.03	Prepare pyrotechnic requisitions IAW the Conventional Ordnance Stockpile Management Manual, NAVSUP-P724 (series), Ordnance Manual, COMDTINST M8000.2 (series), and District OPLAN.		
6.A.04	Prepare ammunition transaction reports IAW the Conventional Ordnance Stockpile Management Manual, NAVSUP-P724 (series) and District OPLAN.		

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SOCIAL SECURITY NO.

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RATING: AV	IATION SURVIVAL TECHNICIAN	INIT	DATE
7.A.01	Manage unit Rescue Swimmer training program IAW the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series) and the Coast Guard Helicopter Rescue Swimmer Manual, COMDTINST M3710.4 (series).		
7.A.02	Manage unit Rescue Swimmer flight requirements IAW the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series) and the Coast Guard Helicopter Rescue Swimmer Manual, COMDTINST M3710.4 (series).		
8.A.01c	Manage unit aircrew flight requirements IAW the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series), the Management and Administration Of Aviation Incentive Pays, COMDTINST 7220.39 (series), and the Special Duty Assignment Pay (SDAP), COMDTINST 1430.1 (series).		
Intent:	Administer the unit Hazardous Duty Incentive Pay (HDIP) and Special Duty Assignment Pay (SDAP) programs, and ensure unit personnel meet minimum aircrew requirements.		
8.A.02c	Manage unit Aviation Engineering Department personnel IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series), the Coast Guard Air Operations Manual, COMDTINST M3710.1 (series), the Staffing Standards Manual, COMDTINST M5312.11 (series) and local directives.		
Intent:	To ensure all shops, maintenance shifts, and duty sections are properly staffed.		
Note:	This performance qualification shall be signed off by the Aviation Engineering Officer or the Leading Chief Petty Officer.		
8.A.03c	Manage Unit Aviation Enlisted Assignment Process IAW the Personnel Manual, COMDTINST M1000.6 (series) and Coast Guard Personnel Center (CGPC) Directives.		
Intent:	Review the unit Personnel Allowance List (PAL) and the qualifications of assigned personnel. Coordinate with CGPC to ensure that the unit staffing needs are met through skill based assignments.		
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	IATION SURVIVAL TECHNICIAN	INIT	DATE
8.A.04c	Manage unit Airman Program IAW Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Monitor and evaluate individuals' progress through the Airman Program. Ensure all requirements have been successfully completed and documented prior to recommending individuals to attend Aviation "A" School.		
8.A.05c	Manage unit personnel Qualification Codes IAW Enlisted Qualification Codes Manual, COMDTINST M1414.9 (series).		
Intent:	To ensure accuracy of Qualification Codes documentation.		
Major Du	ıty: B. Aircraft Maintenance		
Task:			
4.B.01c	Document aircraft discrepancies and appropriate corrective actions IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Demonstrate a proficiency of maintaining aircraft logs and records, with an emphasis on the CG-4377's (series) and CG-5181 forms, and the Maintenance Discrepancy reports (Squawks).		
4.B.02c	Document scheduled and unscheduled maintenance using the Aviation Computerized Maintenance System (ACMS) IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	To have an understanding of the ACMS program (to include TCTOs). Properly complete maintenance documentation on an ACMS MPC.		
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RATING: AVIATION SURVIVAL TECHNICIAN			DATE
4.B.03c	Service the following aircraft systems IAW the Aviation Computerized Maintenance System (ACMS):		
	 Flight Controls Power Plants Power Train Aircraft Structures Electrical Hydraulics Fuel Environmental Control Life Support Fire Protection/Detection 		
Intent:	Have a basic understanding of aircraft system operation to assist in aircraft maintenance. Utilize standard maintenance practices and appropriate safety procedures.		
4.B.01	Inspect aircraft safety belts, shoulder harnesses, and inertia reels IAW the Aviation Computerized Maintenance System (ACMS).		
4.B.02	Analyze aircraft oxygen systems to the component level IAW applicable aircraft publications.		
4.B.03	Safety Wire and Shearwire aircraft equipment IAW the Aircraft Electric and Electronic Wiring Manual, NAVAIR 01-1A-505 (series) and the Aircraft and Missile Structural Hardware Manual, T.O. 1-1A-8.		
5.B.01	Service aircraft oxygen systems IAW the Aviation Computerized Maintenance System (ACMS) and applicable aircraft publications.		
5.B.02	Troubleshoot aircraft oxygen systems discrepancies to the component level IAW the Aviation Computerized Maintenance System (ACMS) and applicable aircraft publications.		
5.B.03	Instruct personnel in the safe handling and storage of cartridges and cartridge activated devices IAW the Use of Cartridge Activated Devices Manual NAVAIR 11-100-1 (series) and the Aviation Computerized Maintenance System (ACMS).		
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CG-3303C-			
RATING: AV	IATION SURVIVAL TECHNICIAN	INIT	DATE
6.B.01c	Review Aviation Computerized Maintenance System (ACMS) data to schedule aircraft and shop maintenance IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	Analyze aircraft records and reports to develop a strategic maintenance plan in order to maximize the effectiveness of maintenance and aircraft availability.		
7.B.01c	Review completed maintenance forms, reports and instructions for compliance IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	To ensure that all maintenance documentation and historical information is current and correct.		
7.B.02c	Manage personnel and resources to meet operational commitments IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series), The Coast Guard Organization Manual, COMDTINST M5400.7 (series), and the unit directives.		
Intent:	Determine and prioritize tasking, communicate with various shops to assign personnel in order to complete work requirements, coordinate and supervise scheduled and unscheduled aircraft maintenance, and to ensure aircraft availability to meet the flight schedule.		
Note:	This performance qualification shall be signed off by the Aviation Engineering Officer or the Aviation Maintenance Officer.		
Major Du	ıty: C. Line Crew		
Task:			
4.C.01c	Service aircraft ground support equipment IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series).		
Intent:	To have a basic understanding of ground support equipment inspections, operations, and safety procedures.		
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4.C.02c	Perform the following line crew duties IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series) and local instructions:		
	 Fuel (aircraft and fuel truck) Fuel Sampling (aircraft and fuel truck) Aircraft ground handling Taxi Director Aircraft wash and rinse operations Aircraft external power operations 		
	 Fireguard Foreign Object Damage (FOD) prevention 		
Intent:	To perform flight line operations properly and safely		
Major D	uty: D. Shop Maintenance		
Task:			
4.D.01	Inspect aviation rescue equipment IAW the Aviation Computerized Maintenance System (ACMS) and the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series).		
4.D.02	Inspect aerial delivery survival equipment kits IAW the Aviation Computerized Maintenance System (ACMS) and the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series).		
4.D.03	Inspect all personal issue protective flight equipment IAW the Aviation Computerized Maintenance System (ACMS) and the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series).		
4.D.04	Repair all personal issue protective flight equipment IAW the Aviation Computerized Maintenance System (ACMS) and the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series).		
4.D.05	Inspect inflatable life rafts IAW the Aviation Computerized Maintenance System (ACMS) and the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series).		
4.D.06	Inspect inflatable life preservers IAW the Aviation Computerized Maintenance System (ACMS) and the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series).		
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RATING: AV	IATION SURVIVAL TECHNICIAN	INIT	DATE
4.D.07	Inspect 12 and 28 foot Aerial Delivery Systems (ADS) IAW the Aviation Computerized Maintenance System (ACMS).		
4.D.08	Handle pyrotechnics IAW the Pyrotechnic Screening, Marking and Countermeasure Devices Manual, NAVSEA SW050-AB-MMA-010, the Conventional Ordnance Stockpile Management Manual, NAVSUP-P724 (series), and NAVSEA OP-5, Volume 1.		
4.D.09	Handle cartridge-activated devices IAW the Use of Cartridge Activated Devices Manual, NAVAIR 11-100-1 (series), the Conventional Ordnance Stockpile Management Manual, NAVSUP-P724 (series), and NAVSEA OP-5, Volume 1.		
4.D.10	Inspect and Maintain personal issue Rescue Swimmer ensembles IAW the Aviation Computerized Maintenance System (ACMS), and the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series).		
4.D.11	Inspect aircraft oxygen mask IAW the Aviation Computerized Maintenance System (ACMS), and the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series).		
4.D.12	Inspect emergency gaseous oxygen bottles IAW the Aviation Computerized Maintenance System (ACMS), and the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series).		
4.D.13	Inspect magazines, ready service lockers and storage facilities IAW NAVSEA OP-5, Volume 1.		
4.D.14	Adjust the timing on medium-duty industrial sewing machines IAW the applicable sewing machine service manual or the Sewing Machine Manual, AFTO 34Y7-1-101.		
4.D.15	Operate medium and heavy-duty industrial sewing machines IAW the applicable sewing machine service manual or the Sewing Machine Manual, AFTO 34Y7-1-101.		
4.D.16	Lubricate medium and heavy-duty industrial sewing machines IAW the applicable sewing machine service manual or the Sewing Machine Manual, AFTO 34Y7-1-101.		
NAME (Last	First, Middle Initial)	SOCIAL	SECURITY NO.

 5.D.01c Preserve aircraft and shop components IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series) and the Aviation Computerized Maintenance System (ACMS). Intent: Protect components against deterioration and damage during shipment and storage. 5.D.02c De-Preserve aircraft and shop components IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series) and the Aviation Computerized Maintenance System (ACMS). Intent: Return preserved components to a serviceable condition 5.D.01 Repair aviation rescue equipment IAW the Aviation Computerized Maintenance System (ACMS) and the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series). 5.D.02 Repair 12 and 28 foot Aerial Delivery Systems (ADS) IAW the Aviation Computerized Maintenance System (ACMS) and the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series). 5.D.03 Build Up 12 and 28 foot Aerial Delivery Systems (ADS) IAW the Aviation Computerized Maintenance System (ACMS). 5.D.04 Repair air deliverable salvage pumps IAW the Aviation Computerized Maintenance System (ACMS) and the applicable Manufacturer's publications. 5.D.05 Build Up air deliverable salvage pumps IAW the Aviation Computerized Maintenance System (ACMS). 5.D.06 Build Up air deliverable salvage pumps IAW the Aviation Computerized Maintenance System (ACMS). 5.D.07 Fit aircrew members with all applicable personal protective flight equipment IAW the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series) and the Aviation Computerized Maintenance System (ACMS). 5.D.08 Inspect helicopter flotation bags IAW the Aviation Computerized Maintenance System (ACMS). 	RATING: AV	(Rev. 02-03) (Effective for the MAY 2004 Active Duty SWE) IATION SURVIVAL TECHNICIAN	INIT	DATE
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Maintenance System (ACMS), and the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series). 5.D.10 Inspect and Maintain Coast Guard Emergency Medical Technician (EMT) equipment IAW the Rescue and Survival Systems Manual, COMDTINST M10470.10 (series). 5.D.11 Design and Fabricate special bags and covers IAW the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series). 5.D.12 Build Up Aircrew Survival Vests IAW the Aviation Computerized Maintenance System (ACMS). 5.D.13 Build Up Air Sea Rescue Kits (ASRK) IAW the Aviation Computerized Maintenance System (ACMS). 5.D.14 Repair inflatable life rafts IAW the Aviation Computerized Maintenance System (ACMS) and the Aviation Life Support Manual, COMDTINST M13520.1 (series). 5.D.15 Inspect inflatable life preservers IAW the Aviation Computerized Maintenance System (ACMS) and the Aviation Life Support Manual, COMDTINST M13520.1 (series). 5.D.16 Store pyrotechnics IAW the Ordnance Manual, COMDTINST M8000.2 (series) and NAVSEA OP-5, Volume 1.	RATING: AV	VIATION SURVIVAL TECHNICIAN	INIT	DATE
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NAME (Last, First, Middle Initial) SOCIAL SECURITY NO.	5.D.18	Engineering Maintenance Management Manual, COMDTINST M13020.1 (series); the Safety and Environmental Health Manual, COMDTINST M5100.47 (series); and the Aviation Life Support Systems		
NAME (Last, First, Middle Initial) SOCIAL SECURITY NO.				
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NAME (Last, First, Middle Initial) SOCIAL SECURITY NO.				
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6.D.01c Perform ground/air handling, transportation and disposal of hazardous material (petro-chemical, biological) IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series), the Aircraft Computerized Maintenance System (ACMS), the Safety and Environmental Health Manual, COMDTINST M5100.47 (series), applicable Material Safety Data Sheets (MSDS), Air Shipping of Hazardous Material, AFJMAN 24-204, state and local regulations. Intent: To ensure proper procedures for the handling, shipping and disposal of hazardous material via commercial contract, or Coast Guard aircraft, are strictly adhered to. 6.D.01 Direct the security, storage, and handling of ordinance equipment IAW the Ordnance Manual, COMDTINST M8000.2 (series). 7.D.01 Supervise the shipment and disposal of pyrotechnics IAW the Ordnance Manual, COMDTINST M8000.2 (series), the Conventional Ordnance Stockpile Management Manual, NAVSUP-P724 (series), and applicable District OPLAN.	PATING: AV	IATION SURVIVAL TECHNICIAN	INIT	DATE
material (petro-chemical, biological) IAW the Aeronautical Engineering Maintenance Management Manual, COMDTINST M13020.1 (series), the Aircraft Computerized Maintenance System (ACMS), the Safety and Environmental Health Manual, COMDTINST M5100.47 (series), applicable Material Safety Data Sheets (MSDS), Air Shipping of Hazardous Material, AFJMAN 24-204, state and local regulations. Intent: To ensure proper procedures for the handling, shipping and disposal of hazardous material via commercial contract, or Coast Guard aircraft, are strictly adhered to. 6.D.01 Direct the security, storage, and handling of ordinance equipment IAW the Ordnance Manual, COMDTINST M8000.2 (series). 7.D.01 Supervise the shipment and disposal of pyrotechnics IAW the Ordnance Manual, COMDTINST M8000.2 (series), the Conventional Ordnance Stockpile Management Manual, NAVSUP-P724 (series), and			IINI I	DATE
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	7.D.01	Ordnance Manual, COMDTINST M8000.2 (series), the Conventional Ordnance Stockpile Management Manual, NAVSUP-P724 (series), and		
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<u>OLOGOMIT</u>		
APPLICABLE PUBLICATIONS : The appropriate aircraft system, component or general aviation instruction.		
APPLY: To put on. To use practically. To concentrate.		
BUILD UP: To construct by combining or assembling.		
DE-PRESERVE : To remove preservation materials from shipped and stored supplies and equipment, and inspect for serviceability.		
DOCUMENT : To record accurate and precise information (via hand writing or electronic means) in order to preserve historical data.		
ENTRY-LEVEL SKILLS : The ability to perform: basic system operation, component identification, component removal and replacement procedures, usage of applicable test equipment, and compliance to the appropriate safety precautions while under direct supervision.		
INSPECT : Examine, test, measure, or evaluate people, spaces or equipment for installation, operation, and performance in accordance with established standards, specifications, drawings, technical manuals, directives, policies or other requirements.		
MAINTAIN : To preserve, fix, or keep in good repair under minimal supervision.		
MANAGE : To handle or direct with a degree of skill or specialized knowledge. To exercise executive, administrative, and supervisory direction.		
PERFORM: To carry out an action or pattern of behavior.		
PREPARE : Plan, gather, and assemble information to produce a document (i.e., forms and schedules).		
PRESERVE : To protect supplies and equipment against deterioration and damage during shipment and storage.		
PROCESS : To initiate a series of actions or operations leading to a particular end.		
REPAIR: To return to airworthy status.		
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RATING: AVIATION SURVIVAL TECHNICIAN	INIT	DATE
REPLACE: To remove a component and install a substitute in it's place.		
REVIEW : To examine a document or process for accuracy in content and/or format and report errors or updates to the author or controlling authority.		
SERVICEABLE: Usable. Ready for installation		
SERVICE: To perform minor maintenance under direct supervision.		
SUBMIT : To prepare a report or form following a defined process and forwarding it to the prescribed authority.		
TROUBLESHOOT : The process of diagnosing, locating and repairing faults in equipment by means of systematic checking or analysis without supervision.		
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U. S. DEPARTMENT OF HOMELAND SECURITY U.S. COAST GUARD CG-3303C-8 (Rev. 02-03)

RECORD OF PERFORMANCE QUALIFICATIONS EM

INSTRUCTIONS

Record of Performance Qualifications shall be completed for enlisted personnel of the Coast Guard as outlined in the Enlisted Performance Qualifications Manual, COMDTINST M1414.8 (series). As proficiency in each performance qualification is demonstrated by actually performing the task listed, the DATE and INITIALS column shall be completed. Personnel are required to demonstrate proficiency in all new performance qualifications assigned to their rating. Performance qualifications previously demonstrated, dated and initialed off will not be recertified. Some performance qualifications include intent statements to help clarify the requirements of the task that is to be performed.

This revision to the EM EPQs does not change any of the previous tasking. It only adds references and provides links to the reference material. Therefore, the SWE effective dates remain unchanged and if members have completed tasks on the previous edition of the EM EPQs, then signatures should be transferred for those completed tasks to this new edition.

RATING ELECTRICIAN'S MATE 2003 Reserve SWE)	(Effective for the NOV 2002 Active D	Outy and the OCT EM
DATE COMPLETED ALL PERFOR	MANCE QUALIFICATIONS FOR RATE LEVEL	
E-4	E-5	E-6
E-7	E-8	E-9
NAME (Last, First, Middle Initial)		SOCIAL SECURITY NUMBER

CG-3303C-8 (Rev. 02-03) (Effective for the NOV 2002 Active Duty and the OCT 2003 Reserve SWE) **SIGNATURE OF SUPERVISOR** INITIALS RATE DATE NAME/SIGNATURE UNIT REMARKS

RATING	: ELECTRICIAN'S MATE	INIT	DATE
Α.	ADMINISTRATION		
4.01	Prepare and maintain Megger Card Files IAW the Naval Engineering Manual, COMDTINST M9000.6 (series), and CMPlus User Manual.		
	Intent: The member should understand the purpose for insulation resistance to ground trend analysis. The member should ensure appropriate insulation resistance to ground entries are made on megger cards and follow procedures for reporting negative trends.		
4.02	Maintain portable electrical tools log IAW applicable unit Preventative Maintenance System (PMS).		
	Intent: The member should maintain an accurate inventory of all portable tools at your unit and identify the personnel responsible for them. The member should track the portable electrical tools and make entries required by the Preventative Maintenance System for portable electrical tool checks.		
4.03	Maintain the tag-out and instrument log IAW the Equipment Tag-out Procedure, COMDTINST 9077.1 (series).		
	Intent: The member should ensure information entered into the log is correct, including the serial numbering system, the list of Authorizing Officers, and blank pages are available for entries, in both Engineering and Operations tag-out logs and IAW published guidelines.		
5.01	Research part numbers and prices for parts needed at your unit IAW the Supply and Policy Procedures Manual (SPPM), COMDTINST M4400.19A (series) and CMPlus User Manual and FEDLOG user manual and tutorial.		
	Intent: The member should identify current part number, source of supply, price, and availability for consumables and material required for corrective and preventative maintenance using FED LOG & CM Plus IAW published guidelines.		
5.02	Prepare a procurement request IAW the Supply and Policy Procedures Manual (SPPM), COMDTINST M4400.19A (series), CMPlus User Manual and LUFS.		
	Intent: The member should prepare required forms for obtaining parts through both commercial and federal supply systems IAW published guidelines.		
NAME ((Last, First, Middle Initial)	SOCIAL S	ECURITY NO.

RATING	: ELECTRICIAN'S MATE	INIT	DATE
5.03	Perform the following within your unit Preventative Maintenance Program IAW the Naval Engineering Manual, COMDTINST M9000.6 (series) and/or CMPlus User Manual, for electrical equipment.		
	 a. Provide recommended updates to the Preventative Maintenance System. b. Review current Maintenance Procedure Cards (MPC's) for accuracy. c. Schedule unit PMS. d. Submit required PMS reports. 		
	Intent: The member should understand how to complete changes to, review accuracy of, schedule, and submit reports for, Preventative Maintenance System procedures. The member should ensure that the procedures are carried out and appropriate information is entered into the CM Plus maintenance tracking system IAW published guidelines.		
5.04	Audit the tag-out log IAW the Equipment Tag-out Procedure, COMDTINST 9077.1 (series).		
	Intent: The member should ensure that information entered into the tag out log is accurate, including the proper equipment name, tag locations, currently authorized personnel signatures are entered on the tags and the log, the serial number sequence is maintained, and the audit entry is completed IAW published guidelines.		
6.01	Prepare and submit a divisional budget IAW all current Coast Guard and Unit instructions.		
	Intent : The member should use historical budgetary data, pending unit projects, and current unit shortfalls to submit a budget via your chain of command.		
6.02	Prepare a Current Ship's Maintenance Project (CSMP) IAW the Naval Engineering Manual, COMDTINST M9000.6 (series).		
	Intent: The member should draft and submit an accurate CSMP for their own unit's upcoming dockside or dry-dock availability, ensuring all applicable specifications are addressed, the proper drawings are used as reference, cost estimates are obtained, safety and habitability concerns are addressed, and the project description accurately reflects the scope of work required.		
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6.03	Prepare and maintain Machinery History files IAW the Naval Engineering Manual, COMDTINST M9000.6 (series), and/or CMPlus User Guide.		
	Intent: The member should understand the purpose of maintaining Machinery history files. The member should inventory Machinery History cards to ensure all equipment prescribed by the Preventative Maintenance System is monitored. The member should ensure appropriate maintenance entries are made on the cards and make the appropriate Machinery History entries into CM Plus, ensuring all prescribed data is entered.		
6.04	Prepare the following casualty report (CASREP) messages IAW the Casualty Reporting (CASREP) Procedures (Materiel), COMDTINST M3501.3 (series), Operational Reports, NWP 1-03.1 chapter 2 (series), MLC Standard Operating Procedures (MLCLANT SOP, MLCPAC SOP), and CMPlus User Manual.		
	a. Initialb. Updatec. Correctiond. Cancellation		
	Intent: The member should be able to demonstrate the ability to initiate, modify, and complete a Maintenance Action and the series of CASREP messages associated with the Maintenance Action, on failed equipment at your unit.		
6.05	Submit an Allowance Change Request (ACR) via Chain of Command to ELC, IAW applicable CALMS/MICA manuals.		
	Intent: The member should be able to determine the proper quantity and type of renewal parts or consumables, storage requirements, and prepare the information IAW published guidelines to correct discrepancies in the Combined Onboard Spare Parts Allowance.		
7.01	Compare the contents of an approved Current Ships Maintenance Project (CSMP), or Shore Side Maintenance Request (SSMR) with the associated Statement of Work, IAW the Naval Engineering Manual, COMDTINST M9000.6 (series), MLC specifications (LANT SPECS, PAC SPECS), and the Civil Engineering Manual, COMDTINST M11000.11 (series).		
	Intent: The member should be able to compare the CSMP, or SSMR to contained in the Statement of Work to ensure the proper drawings, references & materials have been used and safety considerations are properly addressed and installation is correctly located.		
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В.	GENERAL			
4.01	Operate the following test equipment as part of a maintenance or repair procedure on Coast Guard equipment IAW the Manufacturers Technical Manuals and Naval Ships Technical Manual, Chapter <u>491</u> , Electrical Measuring and Test Instruments.			
	 a. Analog multimeter b. Clamp-on ammeter c. Digital multimeter d. Megohmmeter e. Phase sequence indicator f. Portable voltage tester 			
	Intent : The member should demonstrate the proper use of test equipment to measure AC and DC voltage, AC and DC current, resistance, insulation-resistance-to-ground of electrical circuits and the correct phase sequence on multi-phase electrical circuits, ensuring all safety precautions are followed.			
4.02	Install the following connectors as part of a maintenance or repair procedure on Coast Guard equipment IAW the Electronics Installation and Maintenance Handbook (EIMB) Standards, NAVSEA 0910-LP-003-9770, MIL-HDBK-1277 Handbook for Splices, Terminals, Terminal Boards, Binding Posts, Terminal Junctions Systems, Wire Caps; Electrical, and DOD-STD-2003 (SH) Electric Plant Installation Standard Methods for Surface Ships and Submarines, Section 5 (Connectors).			
	 a. BNC (crimp) b. Crimp-on lugs and connectors c. Multipin cannon plugs d. RS-232 e. Solder-on lugs and connectors f. UHF connector to coax 			
	Intent: The member should understand the proper use of crimping tools, diagonal pliers, linemans pliers, and wire strippers to install the above connectors on cable ends to ensure proper continuity of an electrical circuit dependant upon application. In addition, the member should understand the proper application/situation for each connector used.			
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4.03	Using the following references, MIL-HDBK-299 (SH) Cable Comparison Handbook, Data Pertaining to Electric Shipboard Cable including Notice 1, IEEE STD 45, Naval Ships Technical Manual, Chapter 300 Electric Plant-General, Chapter 310 Power Generators and Conversion Equipment, Chapter 320 Electric Power Distribution Systems, Chapter 330 Lighting, MIL-HDBK-290 Standard Electrical Symbols List including Notice 1, and DOD-STD-2003 (SH) Electric Plant Installation Standard Methods for Surface Ships and Submarines, Sections 1 (Cable), 2 (Equipment), 3 (Penetrations), 4 (Cableways), 5 (Connectors), install the proper wire and cable system as part of a maintenance or repair procedure on Coast Guard equipment, including the following components:		
	 a. Bandings b. Cable c. Cable tags d. Connections e. Hangers f. Junction box g. Plugs h. Transits 		
	Intent: The member should understand the proper installation procedures of wiring and cables from a load to a source. The member must determine the wiring/cable type, current requirement for the load, allowable voltage drop, cable length, suspension type and requirement, connections and protection, depending upon environmental conditions.		
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4.04	Given an electronic print and corresponding electronic components of Coast Guard equipment (for example Variable DC power supply, OWS, Gyro compass control circuit, Tank Level Indicator signal distribution card), troubleshoot a printed circuit board to component level IAW MIL-HDBK-198, Capacitors, Selection And Use Of, MIL-HDBK-199 Resistors, Selection And Use Of, and MIL-HDBK-5961A List of Standard Semiconductor Devices, to include the following components.				
	 a. Capacitor b. Diode c. Inductor d. Resistor e. Silicon Controlled Rectifier f. Transistor 				
	Intent: The member should understand the function of each component in the circuit to determine the cause of the component failure. The member should be able to explain nominal circuit operation including being able to analyze both AC and DC circuits using Ohm's Law, Kirchhoff's Law, etc., to determine expected electrical values, identify all failure symptoms and follow logical procedures to isolate the faulty component. The member must identify the lowest repairable failed component. The member must identify all tools, test equipment, and supplies required. The test equipment must include a digital multimeter, and an oscilloscope.				
4.05	Given the proper soldering equipment, renew a two lead (resistor, capacitor, diode, etc.) component IAW Coast Guard Module Test and Repair (MTR) Program, COMDTINST <u>4790.2</u> (series).				
	Intent: The member should demonstrate the proper procedure for renewing the above components, ensuring all applicable safety precautions including Electro-Static Discharge protection, dust protection, and fume protection and proper soldering practices.				
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5.01	Verify rotating machine speed using a hand held tachometer IAW Manufacturers Technical Manual, Naval Ships Technical Manual, Chapter 235 Electric Propulsion Installations, Chapter 491 Electrical Measuring and Test Instruments, and Chapter 504 Pressure Temperature and Other Mechanical and Electromechanical Measuring Instruments.		
	Intent: The member should understand the relationship between the generator speed and generator frequency. The member should be able to measure the rotating speed of a generator using a handheld tachometer and using appropriate formula calculate the expected frequency for comparison to the nominal generator frequency.		
5.02	Troubleshoot the following sensors and/or transducer types as part of a maintenance, or repair procedure on Coast Guard equipment IAW Manufacturers Technical Manual, Naval Ships Technical Manual <u>504</u> Pressure Temperature and Other Mechanical and Electromechanical Measuring Instruments, and <u>MIL-HDBK-298</u> Selection, Installation and Troubleshooting of Resistance Thermometers and Thermocouple Sensors:		
	a. 4-20mAb. RTDc. Thermocouple		
	Intent: The member should understand the theory of operation of the above sensors and transducer types for monitoring pressure, flow, vacuum, and temperature. The member should be able to demonstrate the proper procedure for locating a faulted sensor or transducer. The member should be able to demonstrate the procedure for checking the calibration of suspect sensors or transducers, and affect repairs or adjust the sensor or transducer to restore the circuit to proper operation.		
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C.	SAFETY			
4.01	Don required safety equipment for the following:			
	 a. Battery maintenance IAW the Naval Ships Technical Manual, Chapter 313, Portable Storage and Dry Batteries. b. Repair Party Electrician IAW Naval Ships Technical Manual, Chapter 555 Volume 1 Surface Ship Firefighting. c. Volatile lamps IAW the Naval Ships Technical Manual, Chapter 422, Navigation and Signal Lights. d. Working aloft IAW the Navy Occupational Safety and Health (NAVOSH) Program Manual for Forces Afloat, OPNAVINST 5100.19 (series). 			
	Intent : The member should identify the proper safety equipment required for working on the above systems, or conditions. The member should ensure the proper inspection of safety equipment is completed prior to donning the above safety equipment and performing maintenance on the above systems.			
4.02	Dispose of batteries IAW the Hazardous Waste Management Manual, COMDTINST M16478.1 (series) and Naval Engineering Manual, COMDTINST M9000.6 (series).			
	Intent: The member should understand the safety requirements to be considered when disposing of both primary and secondary cells, or batteries. The member should understand the requirement for stowing and packaging different battery types, paying particular attention to chemical reactivity, which can occur if dissimilar battery types are stowed together. The member should understand the requirements to properly package and stow batteries for shipment to the disposal sight, following all applicable published guidelines. The member should complete all required paperwork required for proper battery disposal, ensuring all applicable published guidelines are followed.			
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4.03	Dispose of lamps IAW the Naval Ships Technical Manual, Chapter 330 Lighting, and the Hazardous Waste Management Manual, COMDTINST M16478.1 (series).		
	Intent: The member should understand the safety requirements when disposing of all lamp types, paying particular attention to potential release of hazardous waste, including mercury, to the environment. Particular attention should also be paid to the potential for explosion on High Intensity Discharge and searchlight bulbs. The member should properly package and stow all lamp types for shipment to the disposal sight, following all applicable published guidelines. The member should complete all required paperwork required for proper lamp disposal, ensuring all applicable published guidelines are followed.		
4.04	Perform a Tag-Out IAW the Equipment Tag-Out Procedure, COMDTINST 9077.1 (series).		
	Intent: The member should understand the requirements for equipment tag-out of all engineering systems. The member should demonstrate the ability to open all sources of power to the circuit, closing all valves on a liquid, or pneumatic system, disabling all starting devices for rotating machines, and disabling/enabling mechanical lockout systems. The member should demonstrate an equipment tag-out acting as the person attaching the tag and as the person checking the tag. The member should demonstrate an equipment tag-in acting as the person removing the tag and as the person checking the tag removal. The member should understand when the equipment or system could be placed back in operation. The member should understand the requirements for acting as the Authorizing Officer. The member should understand the requirements for acting as a Repair Activity Representative.		
4.05	Perform a portable electric tool safety check IAW the Navy Occupational Safety and Health (NAVOSH) Program Manual for Forces Afloat,		

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D.	AUXILIARY CONTROL SYSTEMS		
4.01	Troubleshoot the common faults associated with an auxiliary equipment control circuit as part of a maintenance, or repair procedure on Coast Guard equipment IAW Manufacturers Technical Manual and the Naval Ships Technical Manual, Chapter 221 Boilers, Chapter 300 Electric Plant-General, Chapter 430 Interior Communications Installations, Chapter 504 Pressure Temperature and Other Mechanical and Electromechanical Measuring Instruments, Chapter 510 Heating Ventilating and Air Conditioning Systems for Surface Ships, Chapter 516 Refrigeration Systems, and Chapter 593 Pollution Control, to include the following components:		
	a. Float switch b. Flow switch c. Interlock d. Level switch e. Limit switch f. Pressure switch g. Proximity switch h. Relay i. Solenoid j. Temperature switch k. Timer		
	Intent: The member should understand the theory of operation and intended purpose of the above components in auxiliary control circuits. The member should demonstrate the proper procedure for determining faulted control circuit components, renewal of the defective components, and/or adjustment of the components to restore the circuit to proper operation.		
5.01	Troubleshoot the electrical components of a steering system IAW the Manufacturers Technical Manual, Naval Ships Technical Manual, Chapter 562 Surface Ship Steering Systems and MIL-HDBK-225A Synchros Description and Operation.		
	Intent: The member should understand the theory of operation of a steering system to determine the cause of the failure. The member should be able to demonstrate the proper procedure for determining a faulted steering system electrical component, to include repeaters, electrohydraulic actuators, and solenoid valves. The components must be adjusted and/or renewed to restore the steering system to proper operation.		
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5.02	Troubleshoot a window/windshield wiper system IAW the Manufacturers Technical Manual.		
	Intent: The member should understand the theory of operation of a window/windshield wiper system to determine the cause of the failure. The member should demonstrate the proper procedure for determining a faulted window/windshield wiper system electrical component, to include the motor, the speed control rheostat, the power supply/rectifier assembly, and wiper arm gear train. The components must be adjusted and/or renewed to restore the window/windshield wiper system to proper operation.		
6.01	Troubleshoot governor control systems IAW the Manufacturers Technical Manual, the Naval Ships Technical Manual, Chapter <u>233</u> Diesel Engines, and Chapter <u>310</u> Electric Power Generation.		
	Intent: The member should understand the theory of operation of a governor control system. The member should be able to demonstrate the proper procedure for determining a faulted power generation governor control system component to include the electronic governor control, the magnetic pickup, the mechanical and electrical droop adjustments, and the over speed circuit. The member should be able to demonstrate the proper procedure for determining a faulted propulsion governor control system component, including the magnetic pickup, and the voltage to pneumatic signal converter. The member must understand how to adjust and/or renewed components to restore the system to proper operation.		
6.02	Troubleshoot an autopilot system IAW the Manufacturers Technical Manual and Naval Ships Technical Manual, Chapter <u>562</u> Surface Ship Steering Systems.		
	Intent: The member should understand the theory of operation of an autopilot system. The member should demonstrate the proper procedure for determining a faulted autopilot system component to include the gyro input circuit, rudder feedback, sea state compensation circuit, weather state compensation circuit, heading order circuit, and the steering mode selector circuit. Additionally, the following circuits may be included, the Dynamic Positioning System circuit, and Global Positioning System circuit. The member must understand how to adjust and/or renewed components to restore the system to proper operation.		
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6.03	Troubleshoot an electrical cathodic protection system IAW the Manufacturers Technical Manual and Naval Ships Technical Manual, Chapter 633 Cathodic Protection.		
	Intent: The member should understand the theory of operation of a cathodic protection system. The member should demonstrate the proper procedure for determining a faulted cathodic protection system components to include the power supply, the controller, the anode, the reference electrode, the shaft ground assembly, the rudder ground (including stabilizer if installed), and the dielectric shield. The member should ensure that the system output is entered into the Cathodic Protection Log for the purpose of trend analysis. The member must understand how to adjust and/or renewed components to restore the system to proper operation.		
6.04	Troubleshoot boiler electrical systems IAW the Manufacturers Technical Manual and Naval Ships Technical Manual, Chapter <u>221</u> Boilers.		
	Intent: The member should understand the theory of operation of a boiler electrical system. The member should be able to demonstrate the proper procedure for determining a faulted boiler electrical system to include the flame sensor circuit, the ignition electrodes, the pressure control circuits, the water control circuits, the fuel oil control circuits, and the temperature control circuits. The member must understand how to adjust and/or renewed components to restore the system to proper operation.		
E.	BATTERIES		
4.01	Install multiple batteries IAW the Naval Ships Technical Manual Chapter 313, Portable Storage and Dry Batteries to include the following configurations:		
	a. Parallelb. Seriesc. Series-Parallel		
	Intent: The member must understand the theory of series, parallel, and series-parallel circuits for calculating desired voltage and current. The member must be able to demonstrate connecting batteries in series, parallel, and series-parallel to obtain the desired voltage and current requirements, observing all safety precautions.		
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4.02	Maintain batteries IAW the Naval Ships Technical Manual, Chapter 313 Portable Storage and Dry Batteries, Chapter 400 Electronics, and applicable unit Preventative Maintenance Procedures to include the following:		
	 a. Add distilled water b. Charge batteries IAW the Manufacturers Technical Manual c. Check electrolyte specific gravity, interpret and record readings d. Clean a hydrometer IAW the Manufacturers Technical Manual e. Clean batteries and lubricate terminals f. Fill batteries with pre-mixed electrolyte 		
	Intent: The member should understand the theory of operation for batteries and their construction. The member should understand the relationship between the specific gravity of the electrolyte and the electrolyte temperature. The member must understand the reason for an initial charge, a normal charge, a boost charge, and a floating charge. The member must demonstrate the proper method of placing batteries in service and/or maintaining batteries in a ready state, following all applicable safety precautions.		
4.03	Maintain battery chargers by adjusting the output IAW the Manufacturers Technical Manual, the Naval Ships Technical Manual, Chapter 313 Portable Storage and Dry Batteries, and all applicable unit Preventative Maintenance Procedures.		
	Intent: The member should understand the theory of operation of a battery charger. The member should be able to demonstrate the proper method of maintaining battery charger in a ready state, following all applicable safety precautions. Particular attention should be paid to adjusting the battery charger to maintain the connected batteries in a ready state.		
5.01	Troubleshoot battery chargers to component level IAW the Manufacturers Technical Manual, the Naval Ships Technical Manual, Chapter 300 Electric Plant-General, and Chapter 313 Portable Storage and Dry Batteries.		
	Intent: The member should understand the theory of operation of a battery charger system. The member should be able to demonstrate the proper procedure for determining a faulted battery charger system component to include, the input circuit breaker/fuses, the rate selector switch, the transformer, the solid-state rectifier, the output fuses. The member should understand how to adjust and/or renewed components to restore the system to proper operation.		

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F.	DECK MACHINERY EQUIPMENT		
4.01	Maintain electrical and electronic components of deck machinery IAW the Manufacturers Technical Manual, Naval Ships Technical Manual, Chapter 581 Anchoring, Chapter 589 Cranes, and all applicable Preventative Maintenance Procedures.		
	Intent: The member should understand the electrical theory of operation of deck machinery. The member should demonstrate the ability to determine the proper operating state of interlock switches, proximity switches, limit switches, load cells, operating switches, heater elements, quick disconnects, cannon plugs, and electromagnetic brakes of deck machinery equipment to ensure proper equipment operation.		
4.02	Troubleshoot the common faults associated with electrical and electronic components of deck machinery IAW the Manufacturers Technical Manual and Naval Ships Technical Manual, Chapter 302 Electric Motors and Controllers.		
	Intent: The member should understand the theory of operation of deck machinery systems to determine the cause of the failure. The member should demonstrate the proper procedure for determining a faulted deck machinery system component to include, interlock switches, proximity switches, limit switches, load cells, operating switches, heater elements, quick disconnects, cannon plugs, and electromagnetic brakes. The member must understand how to adjust and/or renewed components to restore the system to proper operation.		
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G. GALLEY, SCULLERY, AND LAUNDRY EQUIPMENT		
4.01 Troubleshoot the common faults associated with the following equipment IAW the Manufacturers Technical Manual, Naval Ships Technical Manual, Chapter <u>510</u> Heating Ventilating and Air Conditioning Systems for Surface Ships, Chapter <u>512</u> Fans, Chapter <u>651</u> Commissary Equipment, Chapter <u>655</u> Laundry and Dry Cleaning, and NAVSEA S9555 AR-MMO-010 Range Guard Fire Extinguishing System.		
 a. Deep fat fryer b. Galley equipment c. Galley fire suppression system d. Galley ventilation system e. Laundry equipment f. Scullery equipment 		
Intent: The member should understand the theory of operation of the above equipment. The member should demonstrate the proper procedure for determining faulted components, renewal of the defective components, and/or adjustment of the components to restore the equipment to proper operation.		
H. GENERATORS, MOTORS AND CONTROLLERS		
4.01 Troubleshoot , to the component level the common faults associated with a non-electronic controller IAW the Manufacturers Technical Manual, Naval Ships Technical Manual, Chapter 300 Electric Plant-General, and Chapter 302 Electric Motors and Controllers, to include the following components:		
a. Auxiliary contacts b. Contactor c. Control transformer d. Fuses e. Interlocks f. Overloads g. Relays h. Switches i. Timers		
Intent: The member should understand the theory of operation and intended purpose of the above components in a non-electronic controller. The member should demonstrate the proper procedure for determining faulted components, renewal of the defective components, and/or adjustment of the components to restore the circuit to proper operation.		
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4.02	Troubleshoot the common faults associated with a Silicon Controlled Rectifier (SCR) drive controller IAW the Manufacturers Technical Manual.		
	Intent: The member should understand the theory of operation of a Silicon Controlled Rectifier (SCR) drive controller. The member should demonstrate the proper procedure for determining faulted components, renewal of the defective components, and/or adjustment of the components to restore the circuit to proper operation.		
5.01	Renew a direct drive AC motor IAW the manufacturers Technical Manual, and Naval Ships Technical Manual, Chapter <u>503</u> Pumps.		
	Intent: The member should demonstrate the ability to renew a direct drive AC motor, following all applicable safety precautions. The member should understand the importance of proper motor-to-equipment alignment and soft foot adjustments. The member should demonstrate proper motor-to-equipment alignment procedures and soft foot adjustments to minimize vibration, excessive torque, and wear.		
5.02	Maintain motors and generators (AC and DC) IAW the Manufacturers Technical Manual, the Naval Ships Technical Manual, Chapter 244 Propulsion Bearings and Seals, Chapter 300 Electric Plant General, Chapter 302 Electric Motors and Controllers, and Chapter 310 Electric Power Generators and Conversion Equipment to include the following:		
	 a. Check air gap b. Check phase balance/rotation c. Check winding temperature d. Inspect brushes e. Inspect brush riggings f. Renew bearing g. Renew brushes 		
	AC motor, following all applicable safety precautions. The member should understand the importance of proper motor-to-equipment alignment and soft foot adjustments. The member should demonstrate proper motor-to-equipment alignment procedures and soft foot adjustments to minimize vibration, excessive torque, and wear. Maintain motors and generators (AC and DC) IAW the Manufacturers Technical Manual, the Naval Ships Technical Manual, Chapter 244 Propulsion Bearings and Seals, Chapter 300 Electric Plant General, Chapter 302 Electric Motors and Controllers, and Chapter 310 Electric Power Generators and Conversion Equipment to include the following: a. Check air gap b. Check phase balance/rotation c. Check winding temperature d. Inspect brushes e. Inspect brush riggings f. Renew bearing		
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l.	INTERIOR COMMUNICATIONS SYSTEM		
4.01	Troubleshoot sound powered phone system IAW the Manufacturers Technical Manual and Naval Ships Technical Manual, Chapter <u>430</u> Interior Communications Installations.		
	Intent: The member should understand the theory of operation of a sound powered phone system. The member should demonstrate the proper procedure for determining faulted components, renewal of the defective components, and/or adjustment of the components to restore the circuit to proper operation. Particular attention should be paid to identifying and correcting the following conditions: grounds, opens, and shorts.		
4.02	Troubleshoot call bell system IAW the Manufacturers Technical Manual and Naval Ships Technical Manual, Chapter <u>430</u> Interior Communications Installations.		
	Intent: The member should understand the theory of operation of a call bell system. The member should demonstrate the proper procedure for determining faulted components, renewal of the defective components, and/or adjustment of the components to restore the circuit to proper operation. Particular attention should be paid to identifying and correcting the following conditions: grounds, opens, and shorts.		
4.03	Troubleshoot a common fire alarm system IAW the Manufacturers Technical Manual.		
	Intent: The member should understand the theory of operation of a fire alarm system. The member should demonstrate the proper procedure for determining faulted components, renewal of the defective components, and/or adjustment of the components to restore the circuit to proper operation. The member should understand detector location requirement, including heat sensing and ionization type detectors, to ensure the proper type of detection. Particular attention should be paid to identifying and correcting the following conditions: grounds, opens, shorts, and the terminating resistor requirement.		
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5.01	Troubleshoot rudder angle indicator system IAW the Manufacturers Technical Manual and MIL-HDBK-225A Synchros Description and Operation.		
	Intent: The member should understand the theory of operation of a synchro driven rudder angle indicator system, to include receivers, transmitters, and current transform. The member should demonstrate the proper procedure for determining faulted components, renewal of the defective components, and/or adjustment of the components to restore the system to proper operation. Particular attention should be paid to identifying and correcting the following conditions: grounds, opens, shorts, proper connection of stator and rotor leads for correct synchro system response, and the criticality of adjusting the stacked switch which controls rudder feedback.		
5.02	Troubleshoot wind direction (HD) and speed (HE) indicator system IAW the Manufacturers Technical Manual and MIL-HDBK-225A Synchros Description and Operation.		
	Intent: The member should understand the theory of operation of a synchro driven wind direction (HD) and speed (HE) indicator system, to include receivers, transmitters. The member should demonstrate the proper procedure for determining faulted components, renewal of the defective components, and/or adjustment of the components to restore the circuit to proper operation. Particular attention should be paid to identifying and correcting the following conditions: grounds, opens, shorts, proper connection of stator and rotor leads for correct synchro system response, and proper alignment of the direction detector to the ship centerline.		
5.03	Troubleshoot salinity indicator system IAW the Manufacturers Technical Manual, Naval Ships Technical Manual, Chapter 531 Desalination Volume 1 Low-Pressure Distilling Plants, Volume 2 Vapor Compression Distilling Plants, Volume 3 Reverse Osmosis Desalination Plants, and NAVSEA SN576-AE-MMA-010/00062 Salinity Indicating Equipment, Installation, Operation, Maintenance and Repair Instructions.		
	Intent: The member should understand the theory of operation of a salinity indicator system. The member should demonstrate the proper procedure for determining faulted components, renewal of the defective components, and/or adjustment of the components to restore the system to proper operation. Particular attention should be paid to identifying and correcting the following conditions: grounds, opens, shorts, and the temperature compensation circuit.		

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5.04	Troubleshoot the common faults associated with the following Interior Communications (IC) Alarm systems IAW the Manufacturers Technical Manual, Naval Ships Technical Manual, 079 Volume 2 Damage Control-Practical Damage Control, and Chapter 430 Interior Communications Installations:		
	 a. Bilge flooding (FD) b. CO₂ flooding (FR) c. High temperature (F) d. Intrusion alarm (FZ) e. Loss of ventilation (HF) 		
	Intent: The member should understand the theory of operation and intended purpose of the above Interior Communications systems to include the following types of switches/detectors: level (FD), flow (FR and HF), temperature (F), and supervised (FZ). The member should demonstrate the proper procedure for determining faulted components, renewal of the defective components, and/or adjustment of the components to restore the circuit to proper operation.		
5.05	Conduct preventive maintenance procedures on a basic gyrocompass and associated equipment IAW applicable unit Preventative Maintenance System (PMS), the Manufacturers Technical Manual and Naval Ships Technical Manual, Chapter <u>420</u> Navigation Systems Equipment and Aids.		
	Intent: The member should understand the theory of operation of a gyrocompass system and it's associated equipment including the Electronic Control Unit, (ECU), switching unit, power converter, repeaters, signal amplifiers, and alarm and error detection circuits. The member should demonstrate the proper procedure for determining faulted components, renewal of the defective components, and/or adjustment of the components. Particular attention should be paid to identifying and correcting the following conditions: grounds, opens, shorts, proper connection of stator and rotor leads for correct repeater response, and proper alignment of the gyro sphere to the ship centerline.		
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J.	LIGHTING SYSTEMS		
4.01	Troubleshoot the common faults associated with the following lighting systems:		
	 a. Battery operated portable and permanent lighting systems IAW the Manufacturers Technical Manual, Naval Ships Technical Manual, Chapter 330 Lighting, and DOD-HDBK-289 Lighting on Naval Ships. b. Deck lighting systems IAW the Manufacturers Technical Manual, Naval Ships Technical Manual, Chapter 330 Lighting, and DOD-HDBK-289 Lighting on Naval Ships. c. Explosion-proof lighting systems IAW the Manufacturers Technical Manual, Naval Ships Technical Manual, Chapter 330 Lighting, and DOD-HDBK-289 Lighting on Naval Ships. d. Fluorescent lighting systems IAW the Manufacturers Technical Manual, Naval Ships Technical Manual, Chapter 330 Lighting, and DOD-HDBK-289 Lighting on Naval Ships. e. Incandescent lighting systems IAW the Manufacturers Technical Manual, Naval Ships Technical Manual, Chapter 330 Lighting, and DOD-HDBK-289 Lighting on Naval Ships. f. Navigational lighting systems IAW the Manufacturers Technical Manual, Naval Ships Technical Manual, Chapter 422 Navigational and Signal Lights, and DOD-HDBK-289 Lighting on Naval Ships. 		
	Intent: The member should understand the theory of operation and intended purpose of the above normal and emergency lighting systems including, voltage sensitive relays operating, contacts, switches, ballasts, starters, bulbs, and fixtures. The member should demonstrate the proper procedure for determining faulted components, renewal of the defective		

intended purpose of the above normal and emergency lighting systems including, voltage sensitive relays operating, contacts, switches, ballasts, starters, bulbs, and fixtures. The member should demonstrate the proper procedure for determining faulted components, renewal of the defective components, and/or adjustment of the components to restore the circuit to proper operation. Particular attention should be paid to identifying and correcting the following conditions: grounds, opens, shorts, maintaining seal integrity of explosion-proof fixtures, the environmental conditions under which explosion-proof fixtures can be maintained, and the criticality of dual filament bulbs in navigation lighting systems.

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4.02	Troubleshoot darken ship switches IAW the Manufacturers Technical Manual, Naval Ships Technical Manual, Chapter 330 Lighting, and DOD-HDBK-289 Lighting on Naval Ships. Intent: The member should understand the theory of operation of darken ship switches to restore the equipment to proper operation. The member should demonstrate the proper procedure for determining faulted components, renewal of the defective components, and/or adjustment of the components to restore the circuit to proper operation. Particular attention should be paid to identifying and correcting the following conditions: grounds, opens, shorts, and the proper adjustment of the switch.		
4.03	Troubleshoot search/signal lights IAW the Manufacturers Technical Manual, Naval Ships Technical Manual, Chapter <u>422</u> Navigation and Signal Lights, and <u>DOD-HDBK-289</u> Lighting on Naval Ships.		
	Intent: The member should demonstrate the proper procedure for determining faulted components to include; starting circuit, operating circuit, ballast circuit, chassis, and the yoke. The member must understand how to adjust/renew defective components to restore the circuit to proper operation. Particular attention should be paid to identifying and correcting the following conditions: proper handling of bulbs to prevent premature failure or explosion, and reflector cleanliness.		
4.04	Troubleshoot the common faults associated with the telltale panels IAW the Manufacturers Technical Manual, Naval Ships Technical Manual, Chapter 422 Navigation and Signal Lights, and DOD-HDBK-289 Lighting on Naval Ships.		
	Intent: The member should understand the theory of operation of telltale panels to restore the equipment to proper operation to include the annunciators, current sensitive relays, indicator lamps, buzzers, switches, fuses, and dimmer control. The member should demonstrate the proper procedure for determining faulted components, renewal of the defective components, and/or adjustment of the components to restore the circuit to proper operation. Particular attention should be paid to identifying and correcting the following conditions: grounds, opens, and shorts.		
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5.01	Troubleshoot the common faults associated with the Visual Landing Aids (VLA) system IAW the Manufacturers Technical Manual, the Naval Air System Command, NAVAIR 51-50ABA-1 Air Capable Ships, and the Naval Air Technical Manual, NAVAIR 51-5B-2 Stabilized Glide Slope Indicator.		
	Intent: The member should understand the theory of operation of the Visual Landing Aids (VLA) system to restore the equipment to proper operation to include homing beacon, wave-off light, line up lights, extended line-up lights, Hot In Flight Refueling (HIFR) lights, deck surface floodlights, vertical drop line lights, touch down light, edge lights, control stations, motor driven variable transformers, and bulbs. The member should demonstrate the proper procedure for determining faulted components, renewal of the defective components, and/or adjustment of the components to restore the circuit to proper operation.		
K.	POWER DISTRIBUTION SYSTEM		
4.01	Rig the casualty power system IAW the Naval Ships Technical Manual, Chapter <u>079 Volume 3</u> Damage Control-Engineering Casualty Control.		
	Intent: The member should understand the purpose of the casualty power system. The member should demonstrate the ability to rig casualty power cable from load to source following all applicable safety precautions.		
4.02	Perform basic switchboard operations IAW Naval Ships Technical Manual, Chapter 310 Electric Power Generators and Conversion Equipment, Chapter 320 Electric Power Distribution Systems, and all local operating procedures.		
	Intent: The member should understand the theory of operation of a basic switchboard to include the following: monitoring equipment, circuit breakers, and control devices. The member should be able demonstrate the ability to parallel a generator to bus, parallel bus-to-bus, single up on a generator, balance true power load when in parallel, balance reactive load when in parallel, and maintain proper power factor.		
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1.03	Troubleshoot a basic electric power distribution system IAW Naval Ships Technical Manual, Chapter <u>300</u> Electric Plant General, and Chapter <u>320</u> Electric Power Distribution Systems. Intent : The member should understand the theory of operation of a power distribution system to include the switchboard, transformers, load centers, bus transfer units, types and purpose of circuit breakers, the purpose of selective tripping, switches, and junction boxes. The member should demonstrate the ability to interpret electrical distribution system prints to include: cable length, cable size, cable type, load, physical components location, and source.		
5.01	Troubleshoot the following power distribution system components IAW the Manufacturers Technical Manual, the Naval Ships Technical Manual, Chapter 300 Electric Plant General, and Chapter 320 Electric Power Distribution Systems.		
	 a. Bus transfer equipment (Both automatic and manual bus transfer units) b. Distribution circuit breakers c. Distribution panels d. Ground detection systems e. Load centers f. Power factor correction equipment g. Power transformers h. Shore tie cables i. Shore tie connectors j. Shore tie receptacles 		
	Intent: The member should understand the theory of operation and intended purpose of the above power distribution system components. The member should demonstrate the proper procedure for determining faulted components, isolation of the defective components, renewal of the defective components, and/or adjustment of the components to restore the system to proper operation.		
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.02	Troubleshoot a switchboard, to the component level, IAW the Manufacturers Technical Manual, the Naval Ships Technical Manual, Chapter 235 Electric Propulsion Installations, Chapter 300 Electric Plant General, Chapter 320 Electric Power Distribution Systems, and Chapter 491 Electrical Measuring and Test Instruments, for the following components:		
	 a. Circuit breakers b. Indicating lights c. Meters – Voltmeter, Ammeter, Frequency meter, Wattmeter, Synchroscope, Power Factor, Phase Sequence Indicator d. Potential and Current transformers e. Potentiometer f. Reverse Power Relay g. Rheostat h. Speed control circuit i. Synchronizer j. Voltage regulators 		
	Intent: The member should understand the theory of operation and intended purpose of the above switchboard components. The member should demonstrate the proper procedure for determining faulted components, isolation of the defective components, renewal of the defective components, and/or adjustment of the components to restore the system to proper operation.		
.03	Troubleshoot the common faults associated with the following power conversion equipment IAW the Manufacturers Technical Manual, Naval Ships Technical Manual, Chapter 235 Electric Propulsion Installations, Chapter 310 Power Generators and Conversion Equipment, Chapter 313 Portable Storage and Dry Batteries, Chapter 400 Electronics, and Chapter 420 Navigation Systems Equipment and Aids.		
	a. Convertersb. Motor-generator setc. Static inverterd. Uninterruptible Power Supply (UPS)		
	Intent: The member should understand the theory of operation and intended purpose of the above power conversion equipment. The member should demonstrate the proper procedure for determining faulted components, isolation of the defective components, renewal of the defective components, and/or adjustment of the components to restore the system to proper operation.		

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6.01	Maintain the following components of a diesel-electric propulsion system IAW the Manufacturers Technical Manual, the Naval Ships Technical Manual, Chapter 235 Electric Propulsion Installations, Chapter 300 Electric Plant General, Chapter 310 Power Generators and Conversion Equipment, and all applicable Preventative Maintenance Procedures. a. Brushes and brush riggings b. Commutator		
	c. Connections d. Exciters e. Main contactors		
	Intent: The member should understand the reason for maintaining the above components to ensure optimal diesel-electric propulsion system performance. The member should demonstrate the proper method of determining the state of, and maintenance required to correct deficiencies in, the above diesel-electric propulsion components, following all applicable safety precautions.		
7.01	Troubleshoot a diesel-electric propulsion control system IAW the Manufacturers Technical Manual, the Naval Ships Technical Manual, Chapter <u>235</u> Electric Propulsion Installations, Chapter <u>300</u> Electric Plant General, and Chapter <u>310</u> Electric Power Generators and Conversion Equipment.		
	Intent: The member should understand the theory of operation of a diesel-electric propulsion system including the propulsion power plant electrical characteristics, feedback circuits and components, regulation circuits and components, and monitoring circuits and components, to include connections, exciters, main contactors, propulsion logic, input devices, output devices, and propulsion switchboard. The member should demonstrate the proper procedure for determining faulted components in the system, isolation of the defective components, renewal of the defective components, and/or adjustment of the components to restore the propulsion control system to proper operation.		
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M. SHORE POWER INSTALLATION

- **4.01 Install** the following components IAW the National Electric Code Handbook (series).
 - a. Ballast (electronic and non-electronic)
 - b. Circuit breaker
 - c. Conduit

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- d. Ground Fault Circuit Interrupter (GFCI)
- e. Receptacle-110 volt circuit
- f. Receptacle-220 volt circuit
- g. Single pole switch
- h. Three-way switch

Intent: The member should understand the theory of operation and intended purpose of the above components. The member should demonstrate the ability to install a lighting circuit controlled from two locations. The member should demonstrate the ability to install a branch circuit requiring a GFCI from load to source with at least two convenience receptacles in the branch, on both the interior and exterior of a wall. The member should demonstrate the ability to install a 220 volt designated circuit from load to source, on the exterior of a wall. The member should understand the following requirements for bending conduit: size, number of conductors in the conduit, reaming and threading, coupling and connectors, the number of bends in a run, the radius of conduit bends and the exceptions, securing and supporting, splices and taps, bushings, and construction specification.

- **4.02** Given a rigid bender (Hickey) and a one-shot bender, **bend** conduit, IAW the Manufacturers Technical Manual, to the following angles:
 - a. 45 degrees
 - b. 90 degrees
 - c. Offset

Intent: The member should understand the requirements for bending conduit to the above specifications to ensure the conduit provides the protection required for the conductors, taking into consideration, bend radius, conductor current capacity, heat dissipation and the number of conductors.

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STANDARD BOAT ELECTRICAL SYSTEMS		
Maintain the electrical system of a 41' UTB and/or 47' MLB IAW all applicable Preventative Maintenance Procedures, the Manufacturers Technical Manual, and the American Boat and Yacht (ABYC) Standards (series).		
Intent: The member should understand how to maintain one of the above systems to ensure optimal performance to include the starting circuit, charging circuit, navigation light circuit, and alarm circuits. The member should be able to demonstrate the proper method of determining the state of, and maintenance required to correct deficiencies in either of the above electrical systems, following all applicable safety precautions.		
Troubleshoot the electrical system of a 41' UTB and/or 47' MLB IAW the Manufacturers Technical Manual, and the American Boat and Yacht (ABYC) Standards (series).		
Intent: The member should understand the theory of operation of a UTB and /or MLB electrical system including the starting circuit, charging circuit, navigation light circuit, and alarm circuits. The member should demonstrate the proper procedure for determining faulted components in the system, isolation of the defective components, renewal of the defective components, and/or adjustment of the components to restore the UTB and/or MLB electrical system to proper operation.		
	Maintain the electrical system of a 41' UTB and/or 47' MLB IAW all applicable Preventative Maintenance Procedures, the Manufacturers Technical Manual, and the American Boat and Yacht (ABYC) Standards (series). Intent: The member should understand how to maintain one of the above systems to ensure optimal performance to include the starting circuit, charging circuit, navigation light circuit, and alarm circuits. The member should be able to demonstrate the proper method of determining the state of, and maintenance required to correct deficiencies in either of the above electrical systems, following all applicable safety precautions. Troubleshoot the electrical system of a 41' UTB and/or 47' MLB IAW the Manufacturers Technical Manual, and the American Boat and Yacht (ABYC) Standards (series). Intent: The member should understand the theory of operation of a UTB and /or MLB electrical system including the starting circuit, charging circuit, navigation light circuit, and alarm circuits. The member should demonstrate the proper procedure for determining faulted components in the system, isolation of the defective components, renewal of the defective components, and/or adjustment of the components to restore the UTB	Maintain the electrical system of a 41' UTB and/or 47' MLB IAW all applicable Preventative Maintenance Procedures, the Manufacturers Technical Manual, and the American Boat and Yacht (ABYC) Standards (series). Intent: The member should understand how to maintain one of the above systems to ensure optimal performance to include the starting circuit, charging circuit, navigation light circuit, and alarm circuits. The member should be able to demonstrate the proper method of determining the state of, and maintenance required to correct deficiencies in either of the above electrical systems, following all applicable safety precautions. Troubleshoot the electrical system of a 41' UTB and/or 47' MLB IAW the Manufacturers Technical Manual, and the American Boat and Yacht (ABYC) Standards (series). Intent: The member should understand the theory of operation of a UTB and /or MLB electrical system including the starting circuit, charging circuit, navigation light circuit, and alarm circuits. The member should demonstrate the proper procedure for determining faulted components in the system, isolation of the defective components, renewal of the defective components, and/or adjustment of the components to restore the UTB

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TERMINOLOGY		
AUDIT – An official examination and verification of accounts and records.		
BEND – To force an object from a straight form into a curved one.		
CALCULATE – Determine a value by mathematical methods, reasoning, or practical experience.		
CONDUCT – To direct or control, lead, or guide.		
DETECT – To discover or determine the existence, presence, or fact of.		
DISPOSE – To put in a particular suitable place.		
DON – To put on or dress in.		
INSTALL – Place a new or modified system or equipment and/or software in service in accordance with established procedures, standards, specifications, drawings, directives, and policies.		
INTERPRET – To explain or tell the meaning of.		
MAINTAIN – All activities that serve to increase the mean-time-between-failure (MTBF) and/or decrease the total time inoperative (TTI) of equipment or systems.		
OPERATE – To cause to function.		
PERFORM – To carry out an action or pattern of behavior.		
PREPARE – Plan, gather, and assemble information to produce a document (i.e. forms and schedules)		
RENEW – To remove a defective component and install a unit with the same specifications in its place.		
REPAIR – To restore a circuit or machinery to an as intended operational state.		
RESEARCH – Systematically inquire into a subject in order to revise facts.		
REVIEW - To examine a document or process for accuracy in content and/or format and report errors or updates to the author or controlling authority.		
RIG – To put in condition or position for use.		
SUBMIT - To prepare a report or form following a defined process and forwarding it to the prescribed authority.		
TROUBLESHOOT – The process of locating and diagnosing faults in equipment by means of systemic checking or analysis and then affecting repair.		
VERIFY – To determine the accuracy of recorded information by comparing to physical evidence.		

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